Sen Liao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3716356/publications.pdf

Version: 2024-02-01

84	1,202	394421 19	526287 27
papers	citations	h-index	g-index

85	85	85	921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A facile surface passivation strategy for Na2SiF6:Mn4+,Li+ phosphors to achieve high moisture resistance and luminescent thermal stability. Journal of Luminescence, 2022, 243, 118643.	3.1	11
2	Enhancement of the luminescent thermal stability and water resistance of K2SiF6:Mn4+,Na+ by double coating of GQDs and K2SiF6. Journal of Alloys and Compounds, 2022, 898, 162819.	5.5	13
3	Water resistance, thermal stability, luminescence enhancement of core-double shell structure K2TiF6:Mn4+ phosphor. Journal of Luminescence, 2022, 244, 118728.	3.1	8
4	An organicâ€“inorganic hybrid K₂TiF₆â€‰:â€‰Mn⁴⁺ red-emitting phosphor with remarkable improvement of emission and luminescent thermal stability. RSC Advances, 2022, 12, 3788-3795.	3.6	13
5	High Water Resistance and Luminescent Thermal Stability of Li_yNa_(2â€“y)SiF₆: Mn⁴⁺ Red-Emitting Phosphor Induced by Codoping of Li⁺. Inorganic Chemistry, 2022, 61, 5484-5494.	4.0	14
6	Improvement of the luminescent thermal stability and water resistance of K2SiF6:Mn4+ by surface passivation. Ceramics International, 2022, 48, 17253-17260.	4.8	17
7	A new type of zero thermal quenching red emitting phosphor Î²-NaYF4:Eu3+ for NUV LEDs. Journal of Solid State Chemistry, 2022, , 123099.	2.9	2
8	Enhancement of the luminescent thermal stability and water resistance of K2TiF6:Mn4+ by organic inorganic hybrid matrix and surface passivation. Journal of Luminescence, 2022, 247, 118885.	3.1	12
9	Novel splitting of excitation and emission spectra of K2TiF6:Mn4+ phosphors induced by graphene quantum dots. Journal of Materials Science: Materials in Electronics, 2021, 32, 485-495.	2.2	1
10	H2O2-free preparation of K2SiF6:Mn4+ and remarkable high luminescent thermal stability induced by coating with graphene quantum dots. Materials Chemistry and Physics, 2021, 260, 124149.	4.0	15
11	Improvement in luminescent properties and thermo-optical conversion mechanism of Na₂SiF₆:Mn⁴⁺,K⁺@GQDs. RSC Advances, 2021, 11, 23023-23035.	3.6	10
12	Conversion of thermal energy to light energy and energy transfer in KGdF4: Eu3+,Tb3+ phosphors. Inorganic Chemistry Communication, 2021, 127, 108549.	3.9	7
13	K2SiF6:Mn4+@K2SiF6 phosphor with remarkable negative thermal quenching and high water resistance for warm white LEDs. Journal of Luminescence, 2021, 234, 117968.	3.1	21
14	High luminescent thermal stability and water resistance of K2SiF6:Mn4+@CaF2 red emitting phosphor. Ceramics International, 2021, 47, 33172-33179.	4.8	26
15	Negative thermal quenching of K3AlF6:Mn4+@GQDs phosphors caused by enhancement of the conversion of heat energy into light energy. Journal of Materials Science: Materials in Electronics, 2021, 32, 26384-26396.	2.2	2
16	Formation and enhancement of negative thermal quenching in emission of KGdF4:Eu3+, Yb3+@GQDs. RSC Advances, 2021, 11, 36222-36229.	3.6	1
17	Significant enhancement and broadening of excitation bands of K2SiF6:Mn4+, NH4+ phosphors induced by NH4+. Materials Research Bulletin, 2020, 121, 110622.	5.2	13
18	Novel luminescence enhancement and splitting of excitation and emission bands of Na2SiF6:Mn4+,Li+ phosphors induced by Li+ co-doping. Journal of Luminescence, 2020, 217, 116770.	3.1	18

#	Article	IF	Citations
19	Grinding kinetics of waste glass powder and its composite effect as pozzolanic admixture in cement concrete. Construction and Building Materials, 2020, 239, 117876.	7.2	32
20	Effects of graphene quantum dots coating on the luminescence properties of K2SiF6:Mn4+ red-emitting phosphors. Journal of Materials Science: Materials in Electronics, 2020, 31, 444-456.	2.2	13
21	Enhancement of zero phonon line for Na2TiF6:Mn4+, Li+ phosphors induced by Li+. Journal of Materials Science: Materials in Electronics, 2019, 30, 14646-14656.	2.2	5
22	Synthesis, luminescence properties and nephelauxetic effect of nano stick phosphors K3AlF6:Mn4+ for warm white LED. Journal of Materials Science: Materials in Electronics, 2019, 30, 1870-1877.	2.2	12
23	Synthesis of (La0.8Y0.2)PO4: Sm3+, Eu3+, Na+ and kinetics mechanism study with Z(Î±) master plots method for thermal process of its precursor. Journal of Thermal Analysis and Calorimetry, 2019, 136, 2487-2494.	3.6	5
24	Novel emission bands of Na2TiF6:Mn4+ phosphors induced by the cation exchange method. Ceramics International, 2019, 45, 6243-6249.	4.8	24
25	Simple coating synthesis and enhanced luminescence behaviour of LiLa(MoO4)2:Eu3+@NaF. Materials Research Bulletin, 2018, 103, 181-185.	5.2	7
26	NaF induced enhancement of luminous efficiency in narrow-band red-emitting K2TiF6:Mn4+@NaF phosphors. Journal of Materials Science: Materials in Electronics, 2018, 29, 12536-12542.	2.2	14
27	The formation of KF induced red-emitting phosphors K 2 TiF 6 Â·BaF(HF 2):Mn 4+ by cation exchange. Journal of Luminescence, 2017, 188, 307-312.	3.1	9
28	Cation exchange synthesis and cations doped effects of red-emitting phosphors K2TiF6:Mn4+, M2+ (Mâ€‰=â€‰Mg, Ca, Sr, Ba, and Zn). Journal of Materials Science: Materials in Electronics, 2017, 28, 11878-11885.	2.2	17
29	Coating synthesis and enhanced photoluminescence of NaCl@LiLa(MoO4)2:Eu3+. Materials Letters, 2017, 208, 77-81.	2.6	8
30	Strain-Induced Enhancement of Eu3+ Emission in Red Phosphor NaMgPO4:Eu3+, Al3+. Journal of Electronic Materials, 2017, 46, 911-916.	2.2	13
31	A novel energy transfer inducing strong enhancement of electric dipole transition in Na₃Mo₁₂PO₄₀:xEu³⁺ phosphors. Materials Research Express, 2017, 4, 086305.	1.6	2
32	Enhanced photoluminescence and energy transfer in the novel red emitting phosphors SrZn2(PO4)2:Eu3+, Tb3+, Li+. Journal of Materials Science: Materials in Electronics, 2017, 28, 657-660.	2.2	15
33	Eu³⁺, Sm³⁺ Co-Doped La_{0.8}Y_{0.2}PO₄: A Novel and Potential Red-Emitting Phosphor for UV-Based White Light-Emitting Diodes. Science of Advanced Materials, 2016, 8, 1093-1100.	0.7	4
34	Near-UV light excited Eu3+, Tb3+, Bi3+ co-doped LaPO4 phosphors: Synthesis and enhancement of red emission for WLEDs. Ceramics International, 2015, 41, 5525-5530.	4.8	36
35	Na+ induced electric-dipole dominated transition (5D0â†'7F2) of Eu3+ emission in AMgPO4:Eu3+ (A=Li+,) Tj ETQq1 1 0.784314 rgBT	2.6	25
36	LaPO4: Ce, Tb, Yb phosphorâ€"synthesis and kinetics study for thermal process of precursor by Vyazovkin, OFW, KAS, Starink, and Mastplosts methods. Journal of Thermal Analysis and Calorimetry, 2015, 120, 1635-1643.	3.6	18

#	Article	IF	Citations
37	Synthesis of a new phosphor (LaPO4:Ce, Li, Mn) and kinetics study for thermal process of its precursor. Advanced Powder Technology, 2015, 26, 861-867.	4.1	5
38	The dual charge compensation effect of Na+ ions on the luminescence behavior of red phosphor NaMgPO4:Eu3+. Materials Letters, 2015, 160, 436-439.	2.6	20
39	Synthesis of Perovskite Pr1.1MnO3.15 and Phase Evolution and Magnetic Properties. Journal of Superconductivity and Novel Magnetism, 2014, 27, 2751-2756.	1.8	2
40	A novel orange emissive phosphor LaPO4:Bi, Sm with sharp and splitting emission peaks of Sm3+. Materials Letters, 2014, 123, 112-115.	2.6	17
41	Magnetic Nanocrystalline Mg0.5Zn0.5Fe2O4: Preparation, Morphology Evolution, and Kinetics of Thermal Decomposition of Precursor. Journal of Superconductivity and Novel Magnetism, 2014, 27, 511-518.	1.8	7
42	Preparation and ultravioletâ€“visible ray transmission property of nanocrystalline InPO4. Journal of Thermal Analysis and Calorimetry, 2014, 115, 1705-1709.	3.6	0
43	Synthesis of Spinel MnCo2O4 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
44	Standard Molar Formation Enthalpy of NH4Fe(HPO4)2. Integrated Ferroelectrics, 2014, 154, 89-96.	0.7	0
45	Synthesis of CeO2 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
46	Kinetics Study with Rigorous Nonlinear Methods for Thermal Decomposition of Polysaccharide Iron Complex. Food Biophysics, 2014, 9, 277-284.	3.0	0
47	Thermal degradation kinetics study of curcumin with nonlinear methods. Food Chemistry, 2014, 155, 81-86.	8.2	90
48	Facile synthesis of hydrotalcite and its thermal decomposition kinetics mechanism study with masterplots method. Thermochimica Acta, 2014, 579, 50-55.	2.7	22
49	Nonisothermal kinetics study with advanced isoconversional procedure and DAEM. Journal of Thermal Analysis and Calorimetry, 2014, 115, 237-245.	3.6	6
50	Magnetic Properties of Cu0.48Ni0.52Fe2O4 and Thermal Process of Precursor. Journal of Superconductivity and Novel Magnetism, 2013, 26, 2153-2158.	1.8	12
51	Preparation of magnetic nanocrystalline Mn0.5Mg0.5Fe2O4 and kinetics of thermal decomposition of precursor. Journal of Thermal Analysis and Calorimetry, 2013, 114, 205-212.	3.6	14
52	Nanocrystalline LiMn2O4 preparation and kinetics of thermal process of precursor. Journal of Thermal Analysis and Calorimetry, 2013, 112, 1391-1399.	3.6	7
53	Synthesis of Nano-Lamellar KZnPO₄ via Solid-State Reaction and its Data Mining Technology. Integrated Ferroelectrics, 2013, 147, 78-84.	0.7	3
54	Nonisothermal Kinetics Study with Isoconversional Procedure and DAEM: LiCoPO₄ Synthesized from Thermal Decomposition of the Precursor. Industrial & Engineering Chemistry Research, 2013, 52, 1870-1876.	3.7	25

#	Article	IF	Citations
55	Application of isoconversional calculation procedure to non-isothermal kinetics study. Journal of Thermal Analysis and Calorimetry, 2013, 111, 313-321.	3.6	17
56	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
57	Non-isothermal kinetics study with isoconversional procedure andÂDAEM: Thermal decomposition of LaPO4:Ce,TbÂ·0.5H2O. Materials Chemistry and Physics, 2013, 142, 453-458.	4.0	8
58	Products and non-isothermal kinetics of thermal decomposition of MgFe2(C2O4)3Â·6H2O. Journal of Thermal Analysis and Calorimetry, 2012, 110, 781-787.	3.6	23
59	Nanocrystalline Zn0.5Ni0.5Fe2O4. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1143-1151.	3.6	19
60	Self-Assembly of Luminescent Hexanuclear Lanthanide Salen Complexes. Crystal Growth and Design, 2012, 12, 970-974.	3.0	71
61	Application of isoconversional calculation procedure to non-isothermal kinetic study: III. Thermal decomposition of ammonium cobalt phosphate hydrate. Thermochimica Acta, 2012, 543, 205-210.	2.7	28
62	Nonisothermal Kinetic Study: IV. Comparative Methods To Evaluate E_a for Thermal Decomposition of KZn₂(PO₄)(HPO₄) Synthesized by a Simple Route. Industrial & Engineering Chemistry Research, 2012, 51, 8985-8991.	3.7	32
63	Nanocrystalline ZrO2 preparation and kinetics research of phase transition. Rare Metals, 2012, 31, 51-57.	7.1	5
64	Preparation of Magnetic Cu0.5Mg0.5Fe2O4 Nanoparticles and Kinetics of Thermal Process of Precursor. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1971-1977.	1.8	14
65	Selective self-assembly synthesis of MnV2O6Â·4H2O with controlled morphologies and study on its thermal decomposition. Journal of Thermal Analysis and Calorimetry, 2012, 109, 163-169.	3.6	16
66	Preparation of LiZnPO4Â·H2O via a novel modified method and its non-isothermal kinetics and thermodynamics of thermal decomposition. Journal of Thermal Analysis and Calorimetry, 2012, 108, 1235-1242.	3.6	21
67	Preparation of LiZn0.9PO4:Mn0.1Â·H2O via a simple and novel method and its non-isothermal kinetics using iso-conversional calculation procedure. Thermochimica Acta, 2012, 533, 74-80.	2.7	18
68	Preparation of nanocrystalline BiFeO3 via a simple and novel method and its kinetics of crystallization. Journal of Thermal Analysis and Calorimetry, 2012, 107, 625-632.	3.6	24
69	Preparation of nanocrystalline LiMnPO4 via a simple and novel method and its isothermal kinetics of crystallization. Journal of Materials Science, 2011, 46, 2474-2478.	3.7	18
70	Non-isothermal kinetics of thermal decomposition of NH4ZrH(PO4)2Â·H2O. Journal of Thermal Analysis and Calorimetry, 2011, 104, 685-691.	3.6	8
71	Kinetics and thermodynamics of thermal decomposition of NH4NiPO4Â·6H2O. Journal of Thermal Analysis and Calorimetry, 2011, 103, 805-812.	3.6	21
72	Magnetic properties and crystallization kinetics of Zn0.5Ni0.5Fe2O4. Rare Metals, 2011, 30, 621-626.	7.1	10

#	Article	IF	Citations
73	Preparation of new sunscreen materials Ce1â^'x Zn x O2â^'x via solid-state reaction at room temperature and study on their properties. Rare Metals, 2010, 29, 149-153.	7.1	21
74	Concentration and separation of vanadium from alkaline media by strong alkaline anion-exchange resin 717. Rare Metals, 2010, 29, 439-443.	7.1	23
75	Selective Synthesis of a Hexagonal Co(II)â€Substituted Sodium Zincophosphate via a Simple and Novel Route. Chinese Journal of Chemistry, 2010, 28, 50-54.	4.9	6
76	Preparation of Ammonium Cerium Phosphate via Lowâ€heating Solid State Reaction and Its Catalysis for Benzyl Acetate Synthesis. Chinese Journal of Chemistry, 2010, 28, 378-382.	4.9	5
77	Novel Method for Preparing NH₄NiPO₄Â·6H₂O: Hydrogen Bonding Coacervate Selective Selfâ€assembly. Chinese Journal of Chemistry, 2010, 28, 2389-2393.	4.9	17
78	Synthesis of Layered Sodium Manganese Phosphate via Lowâ€heating Solid State Reaction and Its Properties. Chinese Journal of Chemistry, 2010, 28, 2394-2398.	4.9	11
79	Synthesis and regulation of Î±-LiZnPO4Â·H2O via a solid-state reaction at low-heating temperatures. Materials Research Bulletin, 2009, 44, 1428-1431.	5.2	7
80	Preparation of nano-sized cerium and titanium pyrophosphates via solid-state reaction at room temperature. Rare Metals, 2009, 28, 33-38.	7.1	17
81	A Simple and Novel Route for The Preparation of Chiral Sodium Zincophosphate. Chinese Journal of Chemistry, 2008, 26, 281-285.	4.9	13
82	Synthesis and Regulation between NaH(ZnPO₄)₂ and Î±â€Hopeite via a Solid State Reaction at Lowâ€heating Temperatures. Chinese Journal of Chemistry, 2008, 26, 1837-1842.	4.9	13
83	Thermochemical Study on the Chiral Sodium Zincophosphate Nanocrystalline. Chinese Journal of Chemistry, 2006, 24, 453-456.	4.9	5
84	Synthesis of Gd(III)-MOF: Dy3+ phosphor and kinetics study of its thermal decomposition. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	2