Kai Feng

List of Publications by Year
in descending order

69 papers	2,013 citations	218592 26 h-index	254106 43 g-index
90 all docs	90 docs citations	90 times ranked	1712 citing authors

#	Article	IF	Citations
1	BaGa2MQ6 (M = Si, Ge; Q = S, Se): a new series of promising IR nonlinear optical materials. Dalton Transactions, 2012, 41, 5653.	1.6	174
2	Synthesis, Structure, and Properties of Li₂In₂MQ₆ (M = Si, Ge; Q =) Tj ETQq0 0 0 rgBT /Overlock	1.9	120
3	LiGaGe₂Se₆: A New IR Nonlinear Optical Material with Low Melting Point. Inorganic Chemistry, 2012, 51, 1035-1040.	1.9	103
4	Growth and characterization of BaGa4Se7 crystal. Journal of Crystal Growth, 2012, 346, 1-4.	0.7	96
5	Noncentrosymmetric chalcohalide NaBa₄Ge₃S₁₀Cl with large band gap and IR NLO response. Journal of Materials Chemistry C, 2014, 2, 4590-4596.	2.7	96
6	Poly (ether etherÂketone) (PEEK) porous membranes with super high thermal stability and high rate capability for lithium-ion batteries. Journal of Membrane Science, 2017, 530, 125-131.	4.1	92
7	All-NASICON LVP-LTP aqueous lithium ion battery with excellent stability and low-temperature performance. Electrochimica Acta, 2018, 278, 279-289.	2.6	67
8	A low cost shutdown sandwich-like composite membrane with superior thermo-stability for lithium-ion battery. Journal of Membrane Science, 2017, 542, 1-7.	4.1	66
9	Rational design and synthesis of LiTi₂(PO₄)_{3â^'x}F_x anode materials for high-performance aqueous lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 593-599.	5.2	53
10	High efficiency and high peak power picosecond mid-infrared optical parametric amplifier based on BaGa_4Se_7 crystal. Optics Letters, 2013, 38, 3903.	1.7	50
11	Low-Cost Room-Temperature Synthesis of NaV₃O₈Â·1.69H₂O Nanobelts for Mg Batteries. ACS Applied Materials & Interfaces, 2018, 10, 4757-4766.	4.0	48
12	A Bi-doped Li₃V₂(PO₄)₃/C cathode material with an enhanced high-rate capacity and long cycle stability for lithium ion batteries. Dalton Transactions, 2015, 44, 17579-17586.	1.6	46
13	Na_{2.67}Mn_{1.67}(MoO₄)₃: A 3.45 V Alluaudite-Type Cathode Candidate for Sodium-Ion Batteries. Chemistry of Materials, 2017, 29, 940-944.	3.2	45
14	From zeolite-type metal organic framework to porous nano-sheet carbon: High activity positive electrode material for bromine-based flow batteries. Nano Energy, 2018, 44, 240-247.	8.2	44
15	Ba6Sn6Se13: a new mixed valence selenostannate with NLO property. Dalton Transactions, 2013, 42, 13635.	1.6	43
16	Ba2AgInS4 and Ba4MGa5Se12 (M = Ag, Li): syntheses, structures, and optical properties. Dalton Transactions, 2012, 41, 2272.	1.6	42
17	Syntheses, Structures, Optical and Magnetic Properties of Ba₂MLnSe₅ (M = Ga, In; Ln = Y, Nd, Sm, Gd, Dy, Er). Inorganic Chemistry, 2012, 51, 6860-6867.	1.9	40
18	Five New Chalcohalides, Ba₃GaS₄X (X = Cl, Br), Ba₃MSe₄Cl (M = Ga, In), and Ba₇In₂Se₆F₈: Syntheses, Crystal Structures, and Optical Properties. Inorganic Chemistry, 2013, 52, 11503-11508.	1.9	38

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19	Synthesis and electrochemical properties of Li₃V₂(P_{1â^'x}B_xO₄)₃/C cathode materials. Journal of Materials Chemistry A, 2015, 3, 19469-19475.	5.2	37
20	â€œGiving comes before receivingâ€• High performance wide temperature range Li-ion battery with Li5V2(PO4)3 as both cathode material and extra Li donor. Nano Energy, 2019, 66, 104175.	8.2	34
21	Ba3LnInS6(Ln = Pr, Sm, Gd, Yb) and Ba2LnGaS5(Ln = Pr, Nd): Syntheses, Structures, and Magnetic and Optical Properties. Inorganic Chemistry, 2012, 51, 11144-11149.	1.9	33
22	Ag₃Ga₃SiSe₈: a new infrared nonlinear optical material with a chalcopyrite structure. CrystEngComm, 2014, 16, 6836.	1.3	32
23	Syntheses, Structures, Physical Properties, and Electronic Structures of Ba₂MLnTe₅ (M = Ga and Ln = Sm, Gd, Dy, Er, Y; M = In and Ln = Ce, Nd, Sm, Gd, Dy,) Tj ETQq1 1 0.784314 rgB	1.9	32
24	Phase-change enabled 2D Li3V2(PO4)3/C submicron sheets for advanced lithium-ion batteries. Journal of Power Sources, 2016, 326, 203-210.	4.0	31
25	Synthesis, structural characterization and optical properties of new compounds: Centrosymmetric Ba2GaMQ5 (M=Sb,Bi; Q=Se,Te), Ba2InSbTe5 and noncentrosymmetric Ba2InSbSe5. Journal of Solid State Chemistry, 2013, 198, 81-86.	1.4	29
26	Facile construction of nanoscale laminated Na₃V₂(PO₄)₃for a high-performance sodium ion battery cathode. Journal of Materials Chemistry A, 2016, 4, 19170-19178.	5.2	28
27	New Quaternary Rare-Earth Chalcogenides BaLnSn2Q6 (Ln = Ce, Pr, Nd, Q = S; Ln = Ce, Q = Se): Synthesis, Structure, and Magnetic Properties. Inorganic Chemistry, 2014, 53, 2248-2253.	1.9	26
28	LiCr(MoO₄)₂: a new high specific capacity cathode material for lithium ion batteries. Journal of Materials Chemistry A, 2019, 7, 567-573.	5.2	25
29	Synthesis, structural characterization and optical properties of a new cesium aluminum borate, Cs2Al2B2O7. Journal of Solid State Chemistry, 2011, 184, 3353-3356.	1.4	24
30	K2FeGe3Se8: A New Antiferromagnetic Iron Selenide. Inorganic Chemistry, 2013, 52, 2022-2028.	1.9	24
31	Ln3FeGaQ7: A new series of transition-metal rare-earth chalcogenides. Journal of Solid State Chemistry, 2013, 202, 269-275.	1.4	23
32	Synthesis, structure, physical properties, and electronic structure of KGaSe2. Solid State Sciences, 2012, 14, 1152-1156.	1.5	22
33	Li3Cr(MoO4)3: a NASICON-type high specific capacity cathode material for lithium ion batteries. Journal of Materials Chemistry A, 2018, 6, 19107-19112.	5.2	21
34	NaGe₃P₃: a new ternary germanium phosphide featuring an unusual [Ge₃P₇] ring. Dalton Transactions, 2012, 41, 484-489.	1.6	19
35	Growth, thermophysical and electrical properties of the nonlinear optical crystal BPO₄. Crystal Research and Technology, 2012, 47, 391-396.	0.6	19
36	Syntheses, structures, optical properties, and electronic structures of KBaMSe 3 (M = As, Sb). Journal of Alloys and Compounds, 2014, 617, 287-291.	2.8	19

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37	KSi2P3: A new layered phosphidopolysilicate (IV). Journal of Solid State Chemistry, 2013, 205, 129-133.	1.4	18
38	A novel UV nonlinear optical crystal material: K21Yb8B45O90. CrystEngComm, 2013, 15, 5064.	1.3	17
39	Four new chalcohalides, NaBa2SnS4Cl, KBa2SnS4Cl, KBa2SnS4Br and CsBa2SnS4Cl: Syntheses, crystal structures and optical properties. Journal of Solid State Chemistry, 2015, 227, 104-109.	1.4	17
40	â€œThreeâ€inâ€One:â€•A New 3D Hybrid Structure of Li₃V₂(PO₄)₃ @ Biomorphic Carbon for Highâ€Rate and Lowâ€Temperature Lithium Ion Batteries. Advanced Materials Interfaces, 2017, 4, 1700686.	1.9	16
41	Zn-Ion Batteries: Boosting the Rate Capability and Low-temperature Performance by Combining Structure and Morphology Engineering. ACS Applied Materials & Interfaces, 2021, 13, 34468-34476.	4.0	15
42	Ba5Ga4Se10: a new selenidogallate containing the novel [Ga4Se10]10â^' anionic cluster with Ga in a mixed-valence state. Dalton Transactions, 2011, 40, 9159.	1.6	14
43	Growth, thermophysical and dielectric properties of the nonlinear optical crystal CsB3O5. Journal of Crystal Growth, 2013, 364, 46-50.	0.7	13
44	One-pot synthesis of 3D hierarchical porous Li₃V₂(PO₄)₃/C nanocomposites for high-rate and long-life lithium ion batteries. RSC Advances, 2017, 7, 38415-38423.	1.7	13
45	High-specific-capacity molybdate anode materials for lithium-ion batteries with good low-temperature performance. Journal of Alloys and Compounds, 2022, 903, 163914.	2.8	13
46	Experimentally determining the intrinsic center point of Bi2O3â€“Fe2O3 phase diagram for growing pure BiFeO3 crystals. CrystEngComm, 2013, 15, 4900.	1.3	12
47	Bi₂Mn₄O₁₀: a new mullite-type anode material for lithium-ion batteries. Dalton Transactions, 2018, 47, 7739-7746.	1.6	11
48	Controlled synthesis of pure-phase metastable tetragonal Nb2O5 anode material for high-performance lithium batteries. Journal of Solid State Chemistry, 2021, 299, 122136.	1.4	11
49	A novel facile and fast hydrothermal-assisted method to synthesize sulfur/carbon composites for high-performance lithiumâ€“sulfur batteries. RSC Advances, 2016, 6, 81950-81957.	1.7	10
50	Crystal Growth, Structural, Electrical, and Magnetic Properties of Mixed-Valent Compounds YbOs2Al10and LuOs2Al10. Inorganic Chemistry, 2014, 53, 4387-4393.	1.9	8
51	An all-weather Li/LiV₂(PO₄)₃ primary battery with improved shelf-life based on the in situ modification of the cathode/electrolyte interface. Journal of Materials Chemistry A, 2020, 8, 16951-16959.	5.2	8
52	K2Fe3(SO4)3(OH)2(H2O)2: A new high-performance hydroxysulfate cathode material for alkali metal ion batteries. Journal of Power Sources, 2020, 452, 227835.	4.0	8
53	Zn₃V₄(PO₄)₆: A New Rocking-Chair-Type Cathode Material with High Specific Capacity Derived from Zn²⁺/H⁺ Cointercalation for Aqueous Zn-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 32066-32074.	4.0	8
54	Synthesis, structure, optical property, and electronic structure of Ba7AgGa5Se15. Journal of Alloys and Compounds, 2013, 565, 115-119.	2.8	7

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55	Syntheses, structures, and optical properties of Ba4MInSe6 (M=Cu, Ag). Journal of Solid State Chemistry, 2012, 192, 168-171.	1.4	6
56	Synthesis, structure, and electronic structure of CsAgGa2Se4. Journal of Solid State Chemistry, 2012, 186, 54-57.	1.4	6
57	Li₇Cd_{4.5}Ge₄Se₁₆ and Li_{6.4}Cd_{4.8}Sn₄Se₁₆: Strong Nonlinear Optical Response in Quaternary Diamondâ€Like Selenide Networks. Chemistry - an Asian Journal, 2018, 13, 871-876.	1.7	6
58	Li_{0.93}V_{2.07}BO₅: a new nano-rod cathode material for lithium ion batteries. Nanoscale, 2018, 10, 1997-2003.	2.8	6
59	Synthesis, Crystal Structure, Magnetic Property, and Electronic Structure of Ba₂YbInSe₅. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2013, 639, 1021-1025.	0.6	5
60	A rational designed high-rate CuxTi2(PO4)3@Cu/C core-composite-shell structure for aqueous lithium ion batteries. Journal of Power Sources, 2020, 468, 228248.	4.0	4
61	Ag1.75InSb5.75Se11: A new noncentrosymmetric compound with congruent-melting behavior. Journal of Solid State Chemistry, 2014, 218, 196-201.	1.4	3
62	Three new chalcohalides, Ba4Ge2PbS8Br2, Ba4Ge2PbSe8Br2 and Ba4Ge2SnS8Br2: Syntheses, crystal structures, band gaps, and electronic structures. Journal of Alloys and Compounds, 2014, 611, 422-426.	2.8	3
63	Syntheses, structure and properties of a new Fillowite-type compound Na0.48Mn1.22PO4. Journal of Alloys and Compounds, 2018, 734, 229-234.	2.8	3
64	Li2Ni(WO4)2/C: A potential tungstate anode material for lithium ion batteries. Journal of Alloys and Compounds, 2021, 888, 161535.	2.8	3
65	Magnetron sputtering NbSe2 film as lubricant for space current-carrying sliding contact. Friction, 2023, 11, 383-394.	3.4	3
66	In Situ Raman Spectroscopy Studies on La₂CaB₁₀O₁₉ Crystal Growth. Crystal Growth and Design, 2020, 20, 6604-6609.	1.4	2
67	Fabricating Flexible Packaging Batteries in General Chemistry Laboratories. Journal of Chemical Education, 2021, 98, 2471-2475.	1.1	2
68	NaV(SO4)2/C, Na3V(SO4)3/C, and K2VO(SO4)2/C: three Li-free vanadium sulfate cathode materials for lithium-ion batteries. Journal of Solid State Electrochemistry, 2022, 26, 1627-1636.	1.2	1
69	K2M2(MoO4)3 (M = Ni, Co, Mn): Potential anode materials with high Li-ion storage properties and good low-temperature performance. Journal of Alloys and Compounds, 2022, 921, 166024.	2.8	1