

Jian Wang

List of Publications by Year in descending order

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50
papers

1,403
citations

361413

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345221

36
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all docs

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docs citations

50
times ranked

1312
citing authors

#	ARTICLE	IF	CITATIONS
19	Chemical Flexibility of Mg in Pnictide Materials: Structure and Properties Diversity. <i>Chemistry of Materials</i> , 2019, 31, 8286-8300.	6.7	17
20	Phonon glass behavior beyond traditional cage structures: synthesis, crystal and electronic structure, and properties of KMg ₄ Sb ₃ . <i>Journal of Materials Chemistry A</i> , 2018, 6, 4759-4767.	10.3	17
21	Chemical Bonding and Transport Properties in Clathrates-I with Cu ²⁺ Zn ²⁺ P Frameworks. <i>Chemistry of Materials</i> , 2018, 30, 3419-3428.	6.7	21
22	Unconventional Clathrates with Transition Metal ²⁺ Phosphorus Frameworks. <i>Accounts of Chemical Research</i> , 2018, 51, 31-39.	15.6	41
23	Eu ₂ P ₇ X and Ba ₂ As ₇ X (X ⁻ = Br, I): Chiral double-Zintl salts containing heptapnictotricyclane clusters. <i>Journal of Solid State Chemistry</i> , 2018, 263, 195-202.	2.9	3
24	Synthesis, Crystal Structure, and Properties of Three La ³⁺ Zn ²⁺ P Compounds with Different Dimensionalities of the Zn ²⁺ P Framework. <i>Crystal Growth and Design</i> , 2018, 18, 4076-4083.	3.0	17
25	A practical field guide to thermoelectrics: Fundamentals, synthesis, and characterization. <i>Applied Physics Reviews</i> , 2018, 5, 021303.	11.3	223
26	Synthesis, crystal and electronic structures, and physical properties of a new quaternary phosphide Ba ₄ Mg _{2+1'} Cu _{12a'} P ₁₀ (0 < 1' < 2). <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 801-808.	6.0	3
27	Synthesis, Crystal Structure, and Properties of La ₄ Zn ₇ P ₁₀ and La ₄ Mg _{1.5} Zn _{8.5} P ₁₂ . <i>Inorganic Chemistry</i> , 2017, 56, 783-790.	4.0	20
28	High-efficiency thermoelectric Ba ₈ Cu ₁₄ Ge ₆ P ₂₆ : bridging the gap between tetrel-based and tetrel-free clathrates. <i>Chemical Science</i> , 2017, 8, 8030-8038.	7.4	44
29	Synthesis, Crystal Structure, and Magnetic Properties of R ₂ Mg ₃ SiPn ₆ (R = La, Ce; Pn = P, As). <i>Inorganic Chemistry</i> , 2017, 56, 8348-8354.	4.0	6
30	Synthesis, crystal structure, and advanced NMR characterization of a low temperature polymorph of SiSe ₂ . <i>Journal of Materials Chemistry A</i> , 2016, 4, 11276-11283.	10.3	14
31	Clathrate thermoelectrics. <i>Materials Science and Engineering Reports</i> , 2016, 108, 1-46.	31.8	160
32	Ce _{1-x} Sr _x ZnSbO: New thermoelectric materials formed between intermetallics and oxides. <i>Journal of Alloys and Compounds</i> , 2016, 688, 849-853.	5.5	12
33	Enclathration of X@La ₄ Tetrahedra in Channels of Zn ²⁺ P Frameworks in La ₃ Zn ₄ P ₆ X (X = Cl, Br). <i>Chemistry of Materials</i> , 2016, 28, 4741-4750.	6.7	18
34	Synthesis, crystal structure, and magnetic properties of quaternary iron selenides: Ba ₂ FePnSe ₅ (Pn=Sb, Bi). <i>Journal of Solid State Chemistry</i> , 2016, 242, 22-27.	2.9	8
35	Synthesis, crystal and electronic structure, and optical properties of two new chalcogenide-iodides: Ba ₃ Q ₄ I ₂ (Q = S, Se). <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 306-312.	6.0	5
36	Synthesis, Crystal, and Electronic Structure of Ba ₃ Sb ₂ <i>Q</i>₇ (<i>Q</i> = S, Se). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1087-1092.	1.2	15

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37	Yb ₁₄ MgSb ₁₁ and Ca ₁₄ MgSb ₁₁ —New Mg-Containing Zintl Compounds and Their Structures, Bonding, and Thermoelectric Properties. <i>Chemistry of Materials</i> , 2015, 27, 343-351.	6.7	89
38	Twisted Kelvin Cells and Truncated Octahedral Cages in the Crystal Structures of Unconventional Clathrates, AM ₂ P ₄ (A = Sr, Ba; M = Cu, Ni). <i>Chemistry of Materials</i> , 2015, 27, 4476-4484.	6.7	48
39	Synthesis, crystal structure, and thermoelectric properties of two new barium antimony selenides: Ba ₂ Sb ₂ Se ₅ and Ba ₆ Sb ₇ Se _{16.11} . <i>Journal of Materials Chemistry C</i> , 2015, 3, 9811-9818.	5.5	20
40	Elusive $\hat{\Gamma}^2$ -Zn ₈ Sb ₇ : A New Zinc Antimonide Thermoelectric. <i>Journal of the American Chemical Society</i> , 2015, 137, 12474-12477.	13.7	45
41	Distorted Phosphorus and Copper Square-Planar Layers in LaCu _{1+x} P ₂ and LaCu ₄ P ₃ : Synthesis, Crystal Structure, and Physical Properties. <i>Inorganic Chemistry</i> , 2015, 54, 890-897.	4.0	26
42	Bulk growth, structure, and characterization of the new monoclinic TbCa ₄ O(BO ₃) ₃ crystal. <i>CrystEngComm</i> , 2014, 16, 4008-4015.	2.6	23
43	Ca ²⁺ RE ³⁺ Ag ⁺ Sb (RE = La, Ce, Pr, Nd, Sm; 0 ≤ x ≤ 1.078431) Thermoelectric Performance. <i>Journal of the American Chemical Society</i> , 2013, 135, 11840-11848.	13.7	48
44	Ba ₁₃ Si ₆ Sn ₈ As ₂₂ : A Quaternary Zintl Phase Containing Adamantane-Like [Si ₄ As ₁₀] Clusters. <i>Inorganic Chemistry</i> , 2013, 52, 11836-11842.	4.0	10
45	A ₁₀ LaCdSb ₉ (A=Ca, Yb): A Highly Complex Zintl System and the Thermoelectric Properties. <i>Chemistry - an Asian Journal</i> , 2013, 8, 251-257.	3.3	18
46	New ternary phosphides and arsenides. Syntheses, crystal structures, physical properties of Eu ₂ ZnP ₂ , Eu ₂ Zn ₂ P ₃ and Eu ₂ Cd ₂ As ₃ . <i>Journal of Solid State Chemistry</i> , 2013, 205, 116-121.	2.9	16
47	Syntheses, crystal structure and physical properties of new Zintl phases Ba ₃ T ₂ As ₄ (T=Zn, Cd). <i>Journal of Solid State Chemistry</i> , 2013, 198, 6-9.	2.9	20
48	A ₅ Sn ₂ As ₆ (A = Sr, Eu). Synthesis, Crystal and Electronic Structure, and Thermoelectric Properties. <i>Inorganic Chemistry</i> , 2012, 51, 5771-5778.	4.0	37
49	Anisotropic Thermal Properties of the Nonlinear Optical and Polar Oxide Material Na ₂ TeW ₂ O ₉ . <i>Crystal Growth and Design</i> , 2011, 11, 3636-3641.	3.0	29
50	Synthesis, Crystal and Electronic Structures, and Properties of the New Pnictide Semiconductors A ₂ CdPn ₂ (A = Ca, Sr, Ba, Eu; Pn = P, As). <i>Inorganic Chemistry</i> , 2011, 50, 8020-8027.	4.0	48