

Qisheng Lin

List of Publications by Year in descending order

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papers

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279798

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docs citations

75
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of the Superconducting Gap by Nesting in $\langle \text{CaKFe}_4 \rangle$. A New High Temperature Superconductor. <i>Physical Review Letters</i> , 2016, 117, 277001.	7.8	71
2	Development of the CaAuIn Icosahedral Quasicrystal and Two Crystalline Approximants: A Practice via Pseudogap Electronic Tuning. <i>Journal of the American Chemical Society</i> , 2007, 129, 6789-6797.	13.7	66
3	Synthesis and Structure of Five $\text{Sc}_3\text{Cu}_y\text{Zn}_{18-y}$ -Type Compositions ($0 \leq y \leq 4.2$), 1/1 Crystalline Approximants of a New Icosahedral Quasicrystal. Direct Example of Tuning on the Basis of Size Effects and Hume-Rothery Concepts. <i>Inorganic Chemistry</i> , 2004, 43, 1912-1919.	4.0	61
4	Syntheses, Crystal and Electronic Structures, and Linear Optics of LiMBO_3 (M = Sr, Ba) Orthoborates. <i>Chemistry of Materials</i> , 2001, 13, 1841-1847.	6.7	51
5	Approximant Phases and an Icosahedral Quasicrystal in the CaAuGa System: The Influence of Size of Gallium versus Indium. <i>Inorganic Chemistry</i> , 2008, 47, 7651-7659.	4.0	48
6	A Sodium-Containing Quasicrystal: Using Gold To Enhance Sodium's Covalency in Intermetallic Compounds. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12699-12702.	13.8	42
7	$\text{Ca}_4\text{Au}_{10}\text{In}_3$: Synthesis, Structure, and Bonding Analysis. The Chemical and Electronic Transformations from the Isotypic $\text{Zr}_7\text{Ni}_{10}$ Intermetallic. <i>Inorganic Chemistry</i> , 2007, 46, 8722-8727.	4.0	41
8	New building blocks in the 2/1 crystalline approximant of a Bergman-type icosahedral quasicrystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 13589-13594.	7.1	39
9	The 1/1 and 2/1 Approximants in the ScMgZn Quasicrystal System: Triangonal Clusters as Fundamental Building Blocks. <i>Journal of the American Chemical Society</i> , 2006, 128, 13268-13273.	13.7	37
10	Formation of the 350 nm Intrinsic Color Center in PbWO_4 Crystals. <i>Physica Status Solidi A</i> , 2000, 181, R1-R3.	1.7	35
11	New stable icosahedral quasicrystalline phase in the ScCuZn system. <i>Philosophical Magazine Letters</i> , 2003, 83, 755-762.	1.2	34
12	Computer simulation of intrinsic defects in PbWO_4 . <i>Physical Review B</i> , 2001, 63, .	3.2	33
13	Origin of the radiation-induced 420nm color center absorption band in PbWO_4 crystals. <i>Solid State Communications</i> , 2001, 118, 221-223.	1.9	33
14	$\text{Mg}_{35}\text{Cu}_{24}\text{Ga}_{53}$: A Three-Dimensional Cubic Network Composed of Interconnected Cu_6Ga_6 Icosahedra, Mg-Centered Ga_{16} Cosioctahedra, and a Magnesium Lattice. <i>Inorganic Chemistry</i> , 2005, 44, 512-518.	4.0	31
15	$\text{M}_{3/2}(\text{Au,Ge})_{19}$ and $\text{M}_{3.25}(\text{Au,Ge})_{18}$ (M = Ca, Yb): Distinctive Phase Separations Driven by Configurational Disorder in Cubic YCd_6 -Type Derivatives. <i>Inorganic Chemistry</i> , 2010, 49, 4570-4577.	4.0	30
16	Conventional and Stuffed Bergman-Type Phases in the NaAuT (T = Ga, Ge, Sn) Systems: Syntheses, Structures, Coloring of Cluster Centers, and Fermi Sphere-Brillouin Zone Interactions. <i>Inorganic Chemistry</i> , 2012, 51, 8882-8889.	4.0	30
17	Crystal and Electronic Structures and Linear Optics of Strontium Pyroborate. <i>Journal of Solid State Chemistry</i> , 1999, 144, 30-34.	2.9	29
18	Computer simulation study of extrinsic defects in PbWO_4 crystals. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 1963-1973.	1.8	29

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19	Development of an Icosahedral Quasicrystal and Two Approximants in the $\text{Ca}^{14}\text{Au}^{46}\text{Sn}$ System: Syntheses and Structural Analyses. <i>Inorganic Chemistry</i> , 2010, 49, 10436-10444.	4.0	29
20	Hexagonal-Diamond-like Gold Lattices, Ba and $(\text{Au},\text{T})_{3}$ Interstitials, and Delocalized Bonding in a Family of Intermetallic Phases $\text{Ba}_{2}\text{Au}_{6}(\text{Au},\text{T})_{3}$ ($\text{T} = \text{Zn}$). <i>Tj ETQ</i> 2010 rg BT 4 Overlock	4.0	29
21	Electron-Poor Polar Intermetallics: Complex Structures, Novel Clusters, and Intriguing Bonding with Pronounced Electron Delocalization. <i>Accounts of Chemical Research</i> , 2018, 51, 49-58.	15.6	29
22	A Study of the Phase $\text{Mg}_{2}\text{Cu}_{6}\text{Ga}_{5}$, Isotypic with $\text{Mg}_{2}\text{Zn}_{11}$. A Route to an Icosahedral Quasicrystal Approximant. <i>Inorganic Chemistry</i> , 2003, 42, 8762-8767.	4.0	28
23	Evolution of structure and magnetic properties in electron-doped double perovskites, $\text{Sr}_{2}\text{LaMnWO}_{6}$ ($0 \leq x \leq 1$). <i>Journal of Solid State Chemistry</i> , 2005, 178, 1356-1366.	2.9	28
24	Interpenetrating Networks of Three-Dimensional Penrose Tiles in CaAu_{3}Ga , the Structurally Simplest Cubic Approximant of an Icosahedral Quasicrystal. <i>Inorganic Chemistry</i> , 2008, 47, 3462-3464.	4.0	24
25	A Chemical Approach to the Discovery of Quasicrystals and Their Approximant Crystals. <i>Structure and Bonding</i> , 2009, , 1-39.	1.0	22
26	$\text{Ca}_{14}\text{Au}_{46}\text{Sn}_{5}$: a "Colored" $\text{Gd}_{14}\text{Ag}_{51}$ -Type Structure Containing Columns of Well-Differentiated Hexagonal Gold Stars. <i>Inorganic Chemistry</i> , 2011, 50, 1808-1815.	4.0	22
27	Gold Network Structures in Rhombohedral and Monoclinic $\text{Sr}_{2}\text{Au}_{6}(\text{Au},\text{T})_{3}$ ($\text{T} = \text{Zn}, \text{Ga}$). A Transition via Relaxation. <i>Inorganic Chemistry</i> , 2013, 52, 13623-13630.	4.0	22
28	Electronic Tuning of $\text{Mg}_{2}\text{Cu}_{6}\text{Ga}_{5}$. A Route to Crystalline Approximant and Quasicrystalline Phases. <i>Journal of the American Chemical Society</i> , 2005, 127, 12786-12787.	13.7	21
29	Exploratory Syntheses and Structures of $\text{SrAu}_{4.3}\text{In}_{1.7}$ and $\text{CaAg}_{3.5}\text{In}_{1.9}$: Electron-Poor Intermetallics with Diversified Polyanionic Frameworks That Are Derived from the $\text{CaAu}_{4}\text{In}_{2}$ Approximant. <i>Inorganic Chemistry</i> , 2011, 50, 11091-11098.	4.0	20
30	Formation of Nets of Corner-Shared Bicapped Gold Squares in SrAu_{3}Ge : How a BaAl_{4} -Type Derivative Reconciles Fewer Valence Electrons and the Origin of Its Uniaxial Negative Thermal Expansion. <i>Journal of the American Chemical Society</i> , 2012, 134, 4877-4884.	13.7	19
31	Calcium pyroborate, $\text{Ca}_{2}\text{B}_{2}\text{O}_{5}$. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999, 55, 4-6.	0.4	17
32	Centric and Non-centric $\text{Ca}_{3}\text{Au}_{7.5}\text{Ge}_{4.5}$: Electron-Poor Derivatives of $\text{La}_{3}\text{Al}_{11}$. Syntheses, Structures, and Bonding Analyses. <i>Inorganic Chemistry</i> , 2009, 48, 5403-5411.	4.0	17
33	Two Homologous Intermetallic Phases in the $\text{Na}^{14}\text{Au}^{14}\text{Zn}$ System with Sodium Bound in Unusual Paired Sites within 1D Tunnels. <i>Inorganic Chemistry</i> , 2012, 51, 9395-9402.	4.0	15
34	Single-Crystal Permanent Magnets: Extraordinary Magnetic Behavior in the Ta-, Cu-, and Fe-Substituted CeCo_{5} Systems. <i>Physical Review Applied</i> , 2019, 11, .	3.8	15
35	Quasi-One-Dimensional Structure and Possible Helical Antiferromagnetism of $\text{RbMn}_{6}\text{Bi}_{5}$. <i>Inorganic Chemistry</i> , 2021, 60, 12941-12949.	4.0	14
36	Crystallographic and magnetic properties of CaLaMnMoO_{6} double perovskite. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2086-2092.	2.9	13

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37	The structure of a PWO:La ₃₊ crystal. <i>Journal of Alloys and Compounds</i> , 2000, 307, 245-248.	5.5	12
38	Li _{14.7} Mg _{36.8} Cu _{21.5} Ga ₆₆ : An Intermetallic Representative of a Type IV Clathrate. <i>Inorganic Chemistry</i> , 2008, 47, 10825-10831.	4.0	12
39	Ordered BaAl ₄ -Type Variants in the BaAuxSn ₄ System: A Unified View on Their Phase Stabilities versus Valence Electron Counts. <i>Inorganic Chemistry</i> , 2014, 53, 5875-5877.	4.0	12
40	Near room temperature antiferromagnetic ordering with a potential low-dimensional magnetism in BaMn_2B_2 . <i>Physical Review Materials</i> , 2019, 3, .		
41	Synthesis, Structure, and Bonding of Sc ₄ Mg _x Cu ₁₅ Ga _{7.5} ($x = 0, 0.5$). Two Incommensurately Modulated Scandium Substitution Derivatives of Cubic Mg ₂ Cu ₆ Ga ₅ . <i>Inorganic Chemistry</i> , 2008, 47, 1020-1029.	4.0	10
42	Multiple Nonstoichiometric Phases with Discrete Composition Ranges in the CaAu ₅ Bi ₂ CaAu ₄ Bi ₂ System. A Case Study of the Chemistry of Spinodal Decomposition. <i>Journal of the American Chemical Society</i> , 2010, 132, 5662-5671.	13.7	9
43	Disorder-Order Structural Transformation in Electron-Poor Sr ₃ Au ₈ Sn ₃ Driven by Chemical Bonding Optimization. <i>Inorganic Chemistry</i> , 2013, 52, 6603-6609.	4.0	9
44	Superstructure in PbWO ₄ : La crystal. <i>Ferroelectrics</i> , 2001, 251, 85-91.	0.6	8
45	Pronounced matrix effect in YbMo ₂ Al ₄ -type Ca(AuxZn ₂) _x Au ₄ ($x=0.09\text{--}0.89$). <i>Journal of Solid State Chemistry</i> , 2014, 218, 103-108.	2.9	8
46	Superconducting properties of RhS_4 single crystals. <i>Physical Review B</i> , 2016, 93, .	3.2	7
47	Polar Intermetallics Pr ₅ Co ₂ Ge ₃ and Pr ₇ Co ₂ Ge ₄ with Planar Hydrocarbon-Like Metal Clusters. <i>Chemistry - A European Journal</i> , 2017, 23, 10516-10521.	3.3	7
48	Oxygen trapped by rare earth tetrahedral clusters in Nd ₄ FeOS ₆ : Crystal structure, electronic structure, and magnetic properties. <i>Journal of Solid State Chemistry</i> , 2015, 229, 41-48.	2.9	6
49	Gold's Structural Versatility within Complex Intermetallics: From Hume-Rothery to Zintl and even Quasicrystals. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1517, 1.	0.1	5
50	The low-temperature form of calcium gold stannide, CaAuSn. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 773-775.	0.5	5
51	Mg _{1-y} Sc _y Zn ₂ : Limited Sc/Mg Alloying between Laves Phase MgZn ₂ and ScZn ₂ - What Drives ScZn ₂ into a High-Pressure Phase?. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3931-3935.	2.0	4
52	Tuning Complexity by Lithiation: A Family of Intergrowth Structures Using Condensed hypno-icosahedra in the Li-Doped Ca-Zn System. <i>Inorganic Chemistry</i> , 2016, 55, 5041-5050.	4.0	4
53	On the Structure and Stability of BaAl ₄ -Type Ordered Derivatives in the Sr-Au-Sn System for the 600 Å°C Section. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 375-382.	1.2	3
54	Growth of PrCo ₂ single crystals with a Boron Nitride crucible. <i>Journal of Crystal Growth</i> , 2019, 507, 209-212.	1.5	3

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55	Lithiation-Induced Zinc Clustering of Zn ₃ , Zn ₁₂ , and Zn ₁₈ Units in Zintl-Like Ca ^{1/3} Li _{3+x} Zn ₆₀ (x = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)	0.784	14
56	An inverse Ruddlesden-Popper nitride Ca ₇ (Li _{1-x}) ₂ Fe _x Te ₂ N ₂ grown from Ca ²⁺ , ux. Philosophical Magazine Letters, 2018, 98, 118-125.	1.2	2
57	A Study of the Phase Mg ₂ Cu ₆ Ga ₅ , Isotypic with Mg ₂ Zn ₁₁ . A Route to an Icosahedral Quasicrystal Approximant.. ChemInform, 2004, 35, no.	0.0	0
58	Synthesis and Structure of Five Sc ₃ Cu _y Zn _{18-y} -Type Compositions (0 ≤ y ≤ 2.2), 1/1 Crystalline Approximants of a New Icosahedral Quasicrystal. Direct Example of Tuning on the Basis of Size Effects and Hume-Rothery Concepts.. ChemInform, 2004, 35, no.	0.0	0
59	Mg ₃₅ Cu ₂₄ Ga ₅₃ : A Three-Dimensional Cubic Network Composed of Interconnected Cu ₆ Ga ₆ Icosahedra, Mg-Centered Ga ₁₆ Icosioctahedra, and a Magnesium Lattice.. ChemInform, 2005, 36, no.	0.0	0
60	R _{1/4} ctitelbild: A Sodium-Containing Quasicrystal: Using Gold To Enhance Sodium's Covalency in Intermetallic Compounds (Angew. Chem. 51/2012). Angewandte Chemie, 2012, 124, 13072-13072.	2.0	0
61	Growth and characterization of BaZnGa. Philosophical Magazine, 2017, 97, 3317-3324.	1.6	0