

Gary J Long

List of Publications by Year in descending order

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87
papers

3,798
citations

136950

32
h-index

128289

60
g-index

89
all docs

89
docs citations

89
times ranked

5391
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic blocking in a linear iron(I) complex. <i>Nature Chemistry</i> , 2013, 5, 577-581.	13.6	562
2	Hydrogen storage and carbon dioxide capture in an iron-based sodalite-type metal-organic framework (Fe-BTT) discovered via high-throughput methods. <i>Chemical Science</i> , 2010, 1, 184.	7.4	294
3	Electron delocalization and charge mobility as a function of reduction in a metal-organic framework. <i>Nature Materials</i> , 2018, 17, 625-632.	27.5	255
4	Charge Delocalization and Bulk Electronic Conductivity in the Mixed-Valence Metal-Organic Framework Fe(1,2,3-triazolate) ₂ (BF ₄) ₂ . <i>Journal of the American Chemical Society</i> , 2018, 140, 8526-8534.	13.7	151
5	A Synthetic, Structural, Magnetic, and Spectral Study of Several {Fe[tris(pyrazolyl)methane] ₂ }(BF ₄) ₂ Complexes: An Observation of an Unusual Spin-State Crossover. <i>Inorganic Chemistry</i> , 2001, 40, 1508-1520.	4.0	120
6	Relationship between the Synthesis of Prussian Blue Pigments, Their Color, Physical Properties, and Their Behavior in Paint Layers. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9693-9712.	3.1	120
7	Characterization and utilization of Prussian blue and its pigments. <i>Dalton Transactions</i> , 2016, 45, 18018-18044.	3.3	108
8	Mössbauer Spectroscopy as a Probe of Magnetization Dynamics in the Linear Iron(I) and Iron(II) Complexes [Fe(C(SiMe ₃) ₃) ₂] ⁺ . <i>Inorganic Chemistry</i> , 2013, 52, 13123-13131.	4.0	99
9	Magnetic and ⁵⁷ Fe Mössbauer Study of the Single Molecule Magnet Behavior of a Dy ₃ Fe ₇ Coordination Cluster. <i>Inorganic Chemistry</i> , 2009, 48, 9345-9355.	4.0	96
10	Structural Characterization and Thermal Conductivity of Type-I Tin Clathrates. <i>Chemistry of Materials</i> , 2000, 12, 1947-1953.	6.7	87
11	Confinement of atomically defined metal halide sheets in a metal-organic framework. <i>Nature</i> , 2020, 577, 64-68.	27.8	84
12	Redox reactions in Prussian blue containing paint layers as a result of light exposure. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 524.	3.0	83
13	Characterization and magnetic properties of core/shell structured Fe/Au nanoparticles. <i>Journal of Applied Physics</i> , 2004, 95, 6804-6806.	2.5	81
14	Formation of Third Generation Poly(pyrazolyl)borate Ligands from Alkyne Coupling Reactions of Fe[(p-IC ₆ H ₄)B(3-Rpz) ₃] ₂ (R = H, Me; pz = Pyrazolyl): A Pathway toward Controlling an Iron(II) Electronic Spin-State Crossover. <i>Journal of the American Chemical Society</i> , 2005, 127, 2303-2316.	13.7	79
15	Study of the high-temperature spin-state crossover in the iron(II) pyrazolylborate complex Fe[HB(pz) ₃] ₂ . <i>Inorganic Chemistry</i> , 1989, 28, 4406-4414.	4.0	76
16	Characterization of the Carbon and Retained Austenite Distributions in Martensitic Medium Carbon, High Silicon Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 1698-1711.	2.2	74
17	Direct Experimental Evidence for Atomic Tunneling of Europium in Crystalline Eu ₈ Ga ₁₆ Ge ₃₀ . <i>Physical Review Letters</i> , 2006, 97, 017401.	7.8	70
18	Mössbauer effect study of filled antimonide skutterudites. <i>Physical Review B</i> , 1999, 60, 7410-7418.	3.2	64

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19	Neutron and nuclear inelastic scattering study of the Einstein oscillators in Ba-, Sr-, and Eu-filled germanium clathrates. <i>Physical Review B</i> , 2005, 72, .	3.2	63
20	Electron Hopping through Double-Exchange Coupling in a Mixed-Valence Diiminobenzoquinone-Bridged Fe ₂ Complex. <i>Journal of the American Chemical Society</i> , 2015, 137, 12617-12626.	13.7	52
21	Einstein oscillators that impede thermal transport. <i>American Journal of Physics</i> , 2005, 73, 110-118.	0.7	48
22	Crystal chemistry of the hydrothermally synthesized Na ₂ (Mn _{1-x} Fe _x) ₂ Fe ₃ (PO ₄) ₃ alluaudite-type solid solution. <i>American Mineralogist</i> , 2005, 90, 653-662.	1.9	43
23	Fading of modern Prussian blue pigments in linseed oil medium. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 930.	3.0	43
24	Title is missing!. <i>Hyperfine Interactions</i> , 2001, 136, 73-95.	0.5	41
25	Influence of Silicon and Phosphorus on Structural and Magnetic Properties of Synthetic Goethite and Related Oxides. <i>Clays and Clay Minerals</i> , 1988, 36, 165-175.	1.3	39
26	Synthesis and Characterization of Two Intensely Colored Tris(benzoylcyanoxime)iron(II) Anionic Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 8704-8713.	4.0	39
27	Lattice dynamics in the FeSb ₃ skutterudite. <i>Physical Review B</i> , 2011, 84, .	3.2	39
28	A Mössbauer effect study of the structural and magnetic properties of Y ₂ (Fe _{1-x} Al _x) ₁₄ B. <i>Journal of Applied Physics</i> , 1987, 61, 4343-4345.	2.5	37
29	Antimony vibrations in skutterudites probed by Sb ¹²¹ nuclear inelastic scattering. <i>Physical Review B</i> , 2007, 76, .	3.2	37
30	Hydrothermal Synthesis, Structural Characterization, and Physical Properties of a New Mixed Valence Iron Phosphate, SrFe ₃ (PO ₄) ₃ . <i>Journal of Solid State Chemistry</i> , 1999, 147, 390-398.	2.9	35
31	Mössbauer spectral study of the magnetocaloric FeMnP _{1-x} As _x compounds. <i>Physical Review B</i> , 2004, 70, .	3.2	35
32	The Instability of Ni ₂ (SiMe ₃) ₂ : A Fifty Year Old Transition Metal Silylamide Mystery. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12914-12917.	13.8	35
33	Magnetic properties of linear chain systems: Metamagnetism of single crystal Co(pyridine) ₂ Cl ₂ . <i>Journal of Chemical Physics</i> , 1978, 68, 4781-4789.	3.0	34
34	An X-ray Rietveld, infrared, and Mössbauer spectral study of the NaMn(Fe _{1-x} Al _x) ₂ (PO ₄) ₃ alluaudite-type solid solution. <i>American Mineralogist</i> , 2003, 88, 211-222.	2.4	32
35	Unique Anionic Eight-Connected Net with 36418536 Topology Derived from a Rare Co ₆ (1/43-OH) ₂ (1/4-H ₂ O)(CO ₂) ₁₂ Building Block. <i>Crystal Growth and Design</i> , 2009, 9, 1271-1274.	3.0	32
36	Iron detection and remediation with a functionalized porous polymer applied to environmental water samples. <i>Chemical Science</i> , 2019, 10, 6651-6660.	7.4	30

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37	Mössbauer Spectroscopy of Europium-Containing Compounds. , 1989, , 513-597.		29
38	Polarized neutron diffraction and Mössbauer spectral study of short-range magnetic correlations in the ferrimagnetic layered compounds (PPH ₄)[Fe ^{II} Fe ^{III} (ox) ₃] and (NBu ₄)[Fe ^I Fe ^{III} (ox) ₃]. Physical Review B, 2002, 66, .	3.2	28
39	Slow magnetic relaxation and electron delocalization in an S=9/2 iron(II/III) complex with two crystallographically inequivalent iron sites. Journal of Chemical Physics, 2011, 134, 174507.	3.0	28
40	A Mössbauer effect study of the magnetic properties of Nd ₂ (Fe _{1-x} Co _x) ₁₄ B and Y ₂ (Fe _{1-x} Co _x) ₁₄ B. Journal of Applied Physics, 1987, 61, 4334-4336.	2.5	27
41	One-step processing of spinel ferrites via the high-energy ball milling of binary oxides. Journal of Applied Physics, 2003, 94, 496-501.	2.5	27
42	Identification of the last glacial maximum in the Upper Paleolithic of Portugal using magnetic susceptibility measurements of Caldeirão Cave sediments. Geoarchaeology - an International Journal, 1998, 13, 55-71.	1.5	25
43	Versatility in the binding of 2-pyrazinecarboxylate with iron. Synthesis, structure and magnetic properties of iron(II) and iron(III) complexes. Dalton Transactions, 2006, , 1675-1684.	3.3	25
44	Moessbauer effect study of triiron dodecacarbonyl. Inorganic Chemistry, 1988, 27, 1524-1529.	4.0	24
45	Magnetic and electronic properties of Eu ₄ Sr ₄ Ga ₁₆ Ge ₃₀ . Physical Review B, 2006, 73, .	3.2	24
46	Magnetoresistance of a (Î ³ -Fe ₂ O ₃) ₈₀ Ag ₂₀ nanocomposite prepared in reverse micelles. Journal of Applied Physics, 2000, 87, 7001-7003.	2.5	23
47	Moessbauer effect study of triiron dodecacarbonyl and the reduced carbide clusters (PPN)[Fe ₃ (CO) ₁₀ CH], (PPN) ₂ [Fe ₃ (CO) ₉ CCO], and (PPN)[Fe ₂ Co(CO) ₉ CCO]. Journal of the American Chemical Society, 1985, 107, 5297-5298.	13.7	22
48	A magnetic and Mössbauer spectral study of the spin reorientation in NdFe ₁₁ Ti and NdFe ₁₁ TiH. Journal of Applied Physics, 2004, 95, 6308-6316.	2.5	22
49	Reply to "Comment on "Mössbauer effect study of filled antimonide skutterudites"™". Physical Review B, 2000, 62, 6829-6831.	3.2	20
50	Synthesis and characterization of carbon nanotubes grown on montmorillonite clay catalysts. Journal of Materials Science, 2007, 42, 8671-8689.	3.7	18
51	Effect of Defect Site Preorganization on Fe(III) Grafting and Stability: A Comparative Study of Delaminated Zeolite vs Amorphous Silica Supports. Chemistry of Materials, 2017, 29, 6480-6492.	6.7	18
52	Best Practices and Protocols in Mössbauer Spectroscopy. Chemistry of Materials, 2021, 33, 3878-3904.	6.7	14
53	Combined Mössbauer Spectral and Density Functional Study of an Eight-Coordinate Iron(II) Complex. Inorganic Chemistry, 2015, 54, 8415-8422.	4.0	13
54	Superstructure in RE _{2-x} Fe ₄ Si _{14-y} (RE = Y, Gd~Lu) Characterized by Diffraction, Electron Microscopy, and Mössbauer Spectroscopy. Inorganic Chemistry, 2006, 45, 10503-10519.	4.0	12

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55	Combined Mössbauer Spectral and Density Functional Theory Determination of the Magnetic Easy-Axis in Two High-Spin Iron(II) 2-Pyrazinecarboxylate Complexes. <i>Inorganic Chemistry</i> , 2009, 48, 8173-8179.	4.0	12
56	A High-Pressure Mössbauer Effect Study of the Spin State in Bis[hydrotris(3,5-dimethyl-1-pyrazolyl)borate]iron(II). <i>Advances in Chemistry Series</i> , 1981, , 453-462.	0.6	11
57	Antimony-121 Mössbauer Spectral Study of the $\text{Eu}^{14}\text{MnSb}_{11}$ and $\text{Yb}^{14}\text{MnSb}_{11}$ Zintl Compounds. <i>Inorganic Chemistry</i> , 2007, 46, 10736-10740.	4.0	11
58	A structural, magnetic, and Mössbauer spectral study of the $\text{DyCo}_4\text{xFe}_x\text{B}$ compounds, with $x=0\text{--}3$. <i>Journal of Applied Physics</i> , 2008, 103, 093917.	2.5	10
59	An electrical resistivity study of $\text{Ce}_2\text{Fe}_{16.8}$ and the $\text{Ce}_2\text{Fe}_{17-x}\text{Al}_x$ and $\text{Ce}_2\text{Fe}_{17-x}\text{Six}$ solid solutions. <i>Journal of Applied Physics</i> , 1997, 81, 2643-2645.	2.5	9
60	Solid State Dynamics of $\text{Fe}_3(\text{CO})_{12}$ Revisited. <i>Inorganic Chemistry</i> , 1996, 35, 4532-4533.	4.0	8
61	A Mössbauer Spectral Study of the Hull Steel and Rusticles Recovered from the Titanic. <i>Hyperfine Interactions</i> , 2004, 155, 1-13.	0.5	8
62	Synthesis and Structural Characterization of a Dimeric Cobalt(I) Homoleptic Alkyl and an Iron(II) Alkyl Halide Complex. <i>Organometallics</i> , 2014, 33, 1917-1920.	2.3	8
63	Quasi-Three-Coordinate Iron and Cobalt Terphenoxide Complexes $\{\text{Ar}^i\text{Pr}_8\text{OM}(\text{I}^{1/4}\text{-O})\}_2$ ($\text{Ar}^i\text{Pr}_8 = \text{Tj}$) ETQq1 1 0.784314 rgh <i>Inorganic Chemistry</i> , 2015, 54, 8914-8922.	4.0	8
64	Mössbauer Spectral Properties of Yttrium Iron Garnet, $\text{Y}_3\text{Fe}_5\text{O}_{12}$, and Its Isovalent and Nonisovalent Yttrium-Substituted Solid Solutions. <i>Inorganic Chemistry</i> , 2016, 55, 3413-3418.	4.0	8
65	Mössbauer Spectral Study of the Low-Temperature Electronic and Magnetic Properties of $\text{I}^\pm\text{FePO}_4$ and the Mixed Valence Iron(II/III) Phosphate $\text{SrFe}_3(\text{PO}_4)_3$. <i>Inorganic Chemistry</i> , 2019, 58, 13314-13322.	4.0	8
66	Mössbauer Spectroscopic Studies of the High Oxidation States of Iron. , 1989, , 289-329.		7
67	A Mössbauer effect study of Y_2Fe_{17} and $\text{Y}_2\text{Fe}_{17}\text{N}_{2.6}$. <i>Hyperfine Interactions</i> , 1994, 94, 1971-1975.	0.5	7
68	The influence of chemical composition on the magnetic properties of $\text{Fe}_{1.5}\text{Co}_x\text{Rh}_{0.5}\text{Mo}_3\text{N}$ ($0 \leq x \leq 1.5$). <i>Journal of Materials Chemistry</i> , 2007, 17, 4785.	6.7	6
69	Structural and Magnetic Studies of a Quasi-Inverse Sandwich Cyclooctatetraene Complex with Two High-Spin Chromium(II) Ions Bound Anti-Facially. <i>Organometallics</i> , 2012, 31, 8556-8560.	2.3	6
70	Comment on "Calibration of ^{57}Fe Mössbauer constants by first principles" <i>Phys. Chem. Chem. Phys.</i> , 2016, 18, 10201-10206. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26306-26309.	2.8	6
71	Magnetic properties of $\text{Fe}_2\text{CeMo}_3\text{N}$; an experimental and computational study. <i>Journal of Materials Chemistry</i> , 2012, 22, 15606.	6.7	5
72	Search for Electron Delocalization from $[\text{Fe}(\text{CN})_6]^{3-}$ to the Dication of Viologen in $(\text{DNP})_3[\text{Fe}(\text{CN})_6]_2 \cdot 10\text{H}_2\text{O}$. <i>Inorganic Chemistry</i> , 2017, 56, 6477-6488.	4.0	5

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73	Goldanskii-Karyagin asymmetry in Fe ₃ (CO) ₁₂ . <i>Hyperfine Interactions</i> , 1988, 40, 299-302.	0.5	4
74	The nonlinear optical, magnetic, and Mössbauer spectral properties of some iron(III) doped silica xerogels. <i>Journal of Materials Science</i> , 2006, 41, 2839-2849.	3.7	4
75	Synthesis and characterization of two metallic spin-glass phases of FeMo ₄ Ge ₃ . <i>Physical Review B</i> , 2008, 77, .	3.2	4
76	Synthesis, Physicochemical Characterization, and Catalytic Evaluation of Fe ³⁺ -Containing SSZ-70 Zeolite. <i>ACS Catalysis</i> , 2022, 12, 6464-6477.	11.2	4
77	Atomic structure and magnetism of ordered and disordered Al _{0.5} Fe _{0.5} xMnx alloys. <i>Journal of Applied Physics</i> , 1999, 85, 5181-5183.	2.5	3
78	A structural, magnetic, and Mössbauer spectral study of the TbCo ₄ xFe _x B compounds with x=, 1, and 2. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	3
79	The rockwall in rockwall, texas: A study of unusual natural magnetic effects in geoarcheological surveys produced by mineral oxidation. <i>Geoarchaeology - an International Journal</i> , 1989, 4, 103-118.	1.5	2
80	Dynamic Motion in [HFe(CO) ₄] ⁻ Ions as Observed by Mössbauer Spectroscopy? Evidence for Hydride Tunneling?. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 884-886.	4.4	2
81	Magnetic and conversion electron Mössbauer spectral study of amorphous thin films of Dy _x Fe _{100-x} and Dy ₂₀ Fe _{80-y} Co _y . <i>Journal of Applied Physics</i> , 2001, 90, 1934-1940.	2.5	2
82	Impact of Lithium and Potassium Cations on the Mössbauer Spectral and Electrical Properties of Two Mixed-Valence Iron(II/III) Phosphites. <i>Chemistry of Materials</i> , 2020, 32, 5534-5540.	6.7	2
83	Revealing the hidden hyperfine interactions in μ -iron. <i>Physical Review B</i> , 2020, 101, .	3.2	2
84	A comparison of the bonding in organoiron clusters. <i>Hyperfine Interactions</i> , 1994, 90, 477-483.	0.5	1
85	Poster contributions. <i>Hyperfine Interactions</i> , 1989, 47-48, 433-589.	0.5	0
86	Mössbauer-spektroskopisch beobachtete Ligandendynamik in [HFe(CO) ₄] ⁻ -Ionen; Hinweise auf -tunnelnde-Hydridoliganden. <i>Angewandte Chemie</i> , 1992, 104, 891-893.	2.0	0
87	3D Characterization of the Carbon Distribution in a Medium Carbon Steel. , 2006, , .		0