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	Synthesis, Physicochemical Characterization, and Catalytic Evaluation of Fe³⁺-Containing SSZ-70 Zeolite. ACS Catalysis, 2022, 12, 6464-6477.	11.2	4
2	Best Practices and Protocols in MÃ¶ssbauer Spectroscopy. Chemistry of Materials, 2021, 33, 3878-3904.	6.7	14
3	Confinement of atomically defined metal halide sheets in a metalâ€“organic framework. Nature, 2020, 577, 64-68.	27.8	84
4	Impact of Lithium and Potassium Cations on the MÃ¶ssbauer Spectral and Electrical Properties of Two Mixed-Valence Iron(II/III) Phosphites. Chemistry of Materials, 2020, 32, 5534-5540.	6.7	2
5	Revealing the hidden hyperfine interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Îµ</mml:mi></mml:math> -iron. Physical Review B, 2020, 101, .	3.2	2
6	MÃ¶ssbauer Spectral Study of the Low-Temperature Electronic and Magnetic Properties of Î±-FePO₄ and the Mixed Valence Iron(II/III) Phosphate SrFe₃(PO₄)₃. Inorganic Chemistry, 2019, 58, 13314-13322.	4.0	8
7	Iron detection and remediation with a functionalized porous polymer applied to environmental water samples. Chemical Science, 2019, 10, 6651-6660.	7.4	30
8	Electron delocalization and charge mobility as a function of reduction in a metalâ€“organic framework. Nature Materials, 2018, 17, 625-632.	27.5	255
9	Charge Delocalization and Bulk Electronic Conductivity in the Mixed-Valence Metalâ€“Organic Framework Fe(1,2,3-triazolate)₂(BF₄)_x. Journal of the American Chemical Society, 2018, 140, 8526-8534.	13.7	151
10	Search for Electron Delocalization from [Fe(CN)₆]^{3â€“} to the Dication of Viologen in (DNP)₃[Fe(CN)₆]₂Â·10H₂O. Inorganic Chemistry, 2017, 56, 6477-6488.	4.0	5
11	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
12	MÃ¶ssbauer Spectral Properties of Yttrium Iron Garnet, Y₃Fe₅O₁₂, and Its Isovalent and Nonisovalent Yttrium-Substituted Solid Solutions. Inorganic Chemistry, 2016, 55, 3413-3418.	4.0	8
13	Comment on â€œCalibration of ⁵⁷Fe MÃ¶ssbauer constants by first principlesâ€•Phys. Chem. Chem. Phys., 2016, 18, 10201â€“10206. Physical Chemistry Chemical Physics, 2016, 18, 26306-26309.	2.8	6
14	Characterization and utilization of Prussian blue and its pigments. Dalton Transactions, 2016, 45, 18018-18044.	3.3	108
15	The Instability of Ni{N(SiMe₃)₂}₂: A Fifty Year Old Transition Metal Silylamide Mystery. Angewandte Chemie - International Edition, 2015, 54, 12914-12917.	13.8	35
16	Electron Hopping through Double-Exchange Coupling in a Mixed-Valence Diiminobenzoquinone-Bridged Fe₂ Complex. Journal of the American Chemical Society, 2015, 137, 12617-12626.	13.7	52
17	Combined MÃ¶ssbauer Spectral and Density Functional Study of an Eight-Coordinate Iron(II) Complex. Inorganic Chemistry, 2015, 54, 8415-8422.	4.0	13
18	Quasi-Three-Coordinate Iron and Cobalt Terphenoxide Complexes {Ar^{iPr₈}OM(Î¼-O)}₂ (Ar^{iPr₈} =) Tj ETQq0 0 0 rgBT /Overlo 2-Oxepinoxy Relevant to Benzene Oxidation. Inorganic Chemistry, 2015, 54, 8914-8922.	4.0	8

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19	Synthesis and Structural Characterization of a Dimeric Cobalt(I) Homoleptic Alkyl and an Iron(II) Alkyl Halide Complex. Organometallics, 2014, 33, 1917-1920.	2.3	8
20	Redox reactions in Prussian blue containing paint layers as a result of light exposure. Journal of Analytical Atomic Spectrometry, 2013, 28, 524.	3.0	83
21	Magnetic blocking in a linear iron(I) complex. Nature Chemistry, 2013, 5, 577-581.	13.6	562
22	Relationship between the Synthesis of Prussian Blue Pigments, Their Color, Physical Properties, and Their Behavior in Paint Layers. Journal of Physical Chemistry C, 2013, 117, 9693-9712.	3.1	120
23	MÃ¶ssbauer Spectroscopy as a Probe of Magnetization Dynamics in the Linear Iron(I) and Iron(II) Complexes [Fe(C(SiMe₃)₃)₂]^{1â€“/0}. Inorganic Chemistry, 2013, 52, 13123-13131.	4.0	99
24	Structural and Magnetic Studies of a Quasi-Inverse Sandwich Cyclooctatetraene Complex with Two High-Spin Chromium(II) Ions Bound Anti-Facially. Organometallics, 2012, 31, 8556-8560.	2.3	6
25	Magnetic properties of Fe2GeMo3N; an experimental and computational study. Journal of Materials Chemistry, 2012, 22, 15606.	6.7	5
26	Lattice dynamics in the FeSb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>skutterudite. Physical Review B, 2011, 84, .	3.2	39
27	Slow magnetic relaxation and electron delocalization in anS=9/2iron(II/III) complex with two crystallographically inequivalent iron sites. Journal of Chemical Physics, 2011, 134, 174507.	3.0	28
28	Fading of modern Prussian blue pigments in linseed oil medium. Journal of Analytical Atomic Spectrometry, 2011, 26, 930.	3.0	43
29	Hydrogen storage and carbon dioxide capture in an iron-based sodalite-type metalâ€“organic framework (Fe-BTT) discovered via high-throughput methods. Chemical Science, 2010, 1, 184.	7.4	294
30	A structural, magnetic, and MÃ¶ssbauer spectral study of the TbCo4â^'xFexB compounds with x=, 1, and 2. Journal of Applied Physics, 2009, 105, .	2.5	3
31	Unique Anionic Eight-Connected Net with 36418536 Topology Derived from a Rare Co6(ì¼3-OH)2(ì¼-H2O)(CO2)12 Building Block. Crystal Growth and Design, 2009, 9, 1271-1274.	3.0	32
32	Combined MÃ¶ssbauer Spectral and Density Functional Theory Determination of the Magnetic Easy-Axis in Two High-Spin Iron(II) 2-Pyrazinecarboxylate Complexes. Inorganic Chemistry, 2009, 48, 8173-8179.	4.0	12
33	Magnetic and ⁵⁷Fe MÃ¶ssbauer Study of the Single Molecule Magnet Behavior of a Dy₃Fe₇ Coordination Cluster. Inorganic Chemistry, 2009, 48, 9345-9355.	4.0	96
34	Synthesis and Characterization of Two Intensely Colored Tris(benzoylcyanoxime)iron(II) Anionic Complexes. Inorganic Chemistry, 2008, 47, 8704-8713.	4.0	39
35	Synthesis and characterization of two metallic spin-glass phases ofFeMo4Ge3. Physical Review B, 2008, 77, .	3.2	4
36	A structural, magnetic, and MÃ¶ssbauer spectral study of the DyCo4â^'xFexB compounds, with x=0â€“3. Journal of Applied Physics, 2008, 103, 093917.	2.5	10

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37	Antimony vibrations in skutterudites probed bySb121nuclear inelastic scattering. Physical Review B, 2007, 76, .	3.2	37
38	The influence of chemical composition on the magnetic properties of Fe1.5â€“xCoxRh0.5Mo3N (0 â‰¤ xÂ â‰¤ 1.5). Journal of Materials Chemistry, 2007, 17, 4785.	6.7	6
39	Antimony-121 MÃ¶ssbauer Spectral Study of the Eu₁₄MnSb₁₁ and Yb₁₄MnSb₁₁ Zintl Compounds. Inorganic Chemistry, 2007, 46, 10736-10740.	4.0	11
40	Synthesis and characterization of carbon nanotubes grown on montmorillonite clay catalysts. Journal of Materials Science, 2007, 42, 8671-8689.	3.7	18
41	Characterization of the Carbon and Retained Austenite Distributions in Martensitic Medium Carbon, High Silicon Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 1698-1711.	2.2	74
42	Superstructure in RE2-xFe4Si14-y(RE = Y, Gdâ€”Lu) Characterized by Diffraction, Electron Microscopy, and MÃ¶ssbauer Spectroscopy. Inorganic Chemistry, 2006, 45, 10503-10519.	4.0	12
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	The nonlinear optical, magnetic, and MÃ¶ssbauer spectral properties of some iron(III) doped silica xerogels. Journal of Materials Science, 2006, 41, 2839-2849.	3.7	4
45	Magnetic and electronic properties ofEu4Sr4Ga16Ge30. Physical Review B, 2006, 73, .	3.2	24
46	Direct Experimental Evidence for Atomic Tunneling of Europium in CrystallineEu8Ga16Ge30. Physical Review Letters, 2006, 97, 017401.	7.8	70
47	3D Characterization of the Carbon Distribution in a Medium Carbon Steel. , 2006, , .		0
48	Neutron and nuclear inelastic scattering study of the Einstein oscillators in Ba-, Sr-, and Eu-filled germanium clathrates. Physical Review B, 2005, 72, .	3.2	63
49	Einstein oscillators that impede thermal transport. American Journal of Physics, 2005, 73, 110-118.	0.7	48
50	Crystal chemistry of the hydrothermally synthesized Na2(Mn1-xFex2+)2Fe3+(PO4)3 alluaudite-type solid solution. American Mineralogist, 2005, 90, 653-662.	1.9	43
51	Formation of Third Generation Poly(pyrazolyl)borate Ligands from Alkyne Coupling Reactions of Fe[(p-IC6H4)B(3-Rpz)3]2(R = H, Me; pz = Pyrazolyl):Â Pathways toward Controlling an Iron(II) Electronic Spin-State Crossover. Journal of the American Chemical Society, 2005, 127, 2303-2316.	13.7	79
52	MÃ¶ssbauer spectral study of the magnetocaloricFeMnP1â€”xAsxcompounds. Physical Review B, 2004, 70, .	3.2	35
53	A magnetic and MÃ¶ssbauer spectral study of the spin reorientation in NdFe11Ti and NdFe11TiH. Journal of Applied Physics, 2004, 95, 6308-6316.	2.5	22
54	A MÃ¶ssbauer Spectral Study of the Hull Steel and Rusticles Recovered from the Titanic. Hyperfine Interactions, 2004, 155, 1-13.	0.5	8

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55	Characterization and magnetic properties of core/shell structured Fe/Au nanoparticles. Journal of Applied Physics, 2004, 95, 6804-6806.	2.5	81
56	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
57	An X-ray Rietveld, infrared, and MÃ¶ssbauer spectral study of the NaMn(Fe_{1â^'x}In_x)₂(PO₄)₃alluaudite-type solid solution. American Mineralogist, 2003, 88, 211-222.	2.9	32
58	Polarized neutron diffraction and MÃ¶ssbauer spectral study of short-range magnetic correlations in the ferrimagnetic layered compounds(PPh4)[FeIIFeIII(ox)3]and(NBu4)[FeIIFeIII(ox)3]. Physical Review B, 2002, 66, .	3.2	28
59	A Synthetic, Structural, Magnetic, and Spectral Study of Several {Fe[tris(pyrazolyl)methane]2}(BF4)2Complexes:Â Observation of an Unusual Spin-State Crossover. Inorganic Chemistry, 2001, 40, 1508-1520.	4.0	120
60	Title is missing!. Hyperfine Interactions, 2001, 136, 73-95.	0.5	41
61	Magnetic and conversion electron MÃ¶ssbauer spectral study of amorphous thin films of DyxFe100â^'x and Dy20Fe80â^'yCoy. Journal of Applied Physics, 2001, 90, 1934-1940.	2.5	2
62	Reply to â€œComment on â€˜MÃ¶ssbauer effect study of filled antimonide skutteruditesâ€™ â€• Physical Review B, 2000, 62, 6829-6831.	3.2	20
63	Magnetoresistance of a (Î³-Fe2O3)80Ag20 nanocomposite prepared in reverse micelles. Journal of Applied Physics, 2000, 87, 7001-7003.	2.5	23
64	Structural Characterization and Thermal Conductivity of Type-I Tin Clathrates. Chemistry of Materials, 2000, 12, 1947-1953.	6.7	87
65	Atomic structure and magnetism of ordered and disordered Al0.5Fe0.5â^'xMnx alloys. Journal of Applied Physics, 1999, 85, 5181-5183.	2.5	3
66	MÃ¶ssbauer effect study of filled antimonide skutterudites. Physical Review B, 1999, 60, 7410-7418.	3.2	64
67	Hydrothermal Synthesis, Structural Characterization, and Physical Properties of a New Mixed Valence Iron Phosphate, SrFe3(PO4)3. Journal of Solid State Chemistry, 1999, 147, 390-398.	2.9	35
68	Identification of the last glacial maximum in the Upper Paleolithic of Portugal using magnetic susceptibility measurements of CaldeirÃ£o Cave sediments. Geoarchaeology - an International Journal, 1998, 13, 55-71.	1.5	25
69	An electrical resistivity study of Ce2Fe16.8 and the Ce2Fe17â^'xAlx and Ce2Fe17â^'xSix solid solutions. Journal of Applied Physics, 1997, 81, 2643-2645.	2.5	9
70	Solid State Dynamics of Fe3(CO)12 Revisited. Inorganic Chemistry, 1996, 35, 4532-4533.	4.0	8
71	A MÃ¶ssbauer effect study of Y2Fe17 and Y2Fe17N2.6. Hyperfine Interactions, 1994, 94, 1971-1975.	0.5	7
72	A comparison of the bonding in organoiron clusters. Hyperfine Interactions, 1994, 90, 477-483.	0.5	1

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73	Dynamic Motion in [HFe(CO)4]? Ions as Observed by Mï¿½ssbauer Spectroscopy?Evidence for Hydride ?Tunneling?. Angewandte Chemie International Edition in English, 1992, 31, 884-886.	4.4	2
74	MÃ¶ÃŸbauerâ€spektroskopisch beobachtete Ligandendynamik in [HFe(CO)₄]^{â¯}â€Ionen; Hinweise auf â€žtunnelndeâ€œ Hydridoliganden. Angewandte Chemie, 1992, 104, 891-893.	2.0	0
75	MÃ¶ssbauer Spectroscopic Studies of the High Oxidation States of Iron. , 1989, , 289-329.		7
76	Poster contributions. Hyperfine Interactions, 1989, 47-48, 433-589.	0.5	0
77	The rockwall in rockwall, texas: A study of unusual natural magnetic effects in geoarcheological surveys produced by mineral oxidation. Geoarchaeology - an International Journal, 1989, 4, 103-118.	1.5	2
78	Study of the high-temperature spin-state crossover in the iron(II) pyrazolylborate complex Fe[HB(pz)3]2. Inorganic Chemistry, 1989, 28, 4406-4414.	4.0	76
79	MÃ¶ssbauer Spectroscopy of Europium-Containing Compounds. , 1989, , 513-597.		29
80	Goldanskii-Karyagin asymmetry in Fe3(CO)12. Hyperfine Interactions, 1988, 40, 299-302.	0.5	4
81	Moessbauer effect study of triiron dodecacarbonyl. Inorganic Chemistry, 1988, 27, 1524-1529.	4.0	24
82	Influence of Silicon and Phosphorus on Structural and Magnetic Properties of Synthetic Goethite and Related Oxides. Clays and Clay Minerals, 1988, 36, 165-175.	1.3	39
83	A MÃ¶ssbauer effect study of the structural and magnetic properties of Y2(Fe1â^'xAlx)14B. Journal of Applied Physics, 1987, 61, 4343-4345.	2.5	37
84	A MÃ¶ssbauer effect study of the magnetic properties of Nd2(Fe1â^'xCox)14B and Y2(Fe1â^'xCox)14B. Journal of Applied Physics, 1987, 61, 4334-4336.	2.5	27
85	Moessbauer effect study of triiron dodecacarbonyl and the reduced carbide clusters (PPN)[Fe3(CO)10CH], (PPN)2[Fe3(CO)9CCO], and (PPN)[Fe2Co(CO)9CCO]. Journal of the American Chemical Society, 1985, 107, 5297-5298.	13.7	22
86	A High-Pressure MÃ¶ssbauer Effect Study of the Spin State in Bis[hydrotris(3,5-dimethyl-1-pyrazolyl)borate]iron(II). Advances in Chemistry Series, 1981, , 453-462.	0.6	11
87	Magnetic properties of linear chain systems: Metamagnetism of single crystal Co(pyridine)2Cl2. Journal of Chemical Physics, 1978, 68, 4781-4789.	3.0	34