Fernande Grandjean

List of Publications by Year
in descending order

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61 papers	3,078 citations	218677 26 h-index	155660 55 g-index
62 all docs	62 docs citations	62 times ranked	4735 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	Reversible CO Scavenging via Adsorbate-Dependent Spin State Transitions in an Iron(II)â€“Triazolate Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 5594-5602.	13.7	141
14	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
15	Characterization and utilization of Prussian blue and its pigments. Dalton Transactions, 2016, 45, 18018-18044.	3.3	108
16	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
17	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
18	Combined MÃ¶ssbauer Spectral and Density Functional Study of an Eight-Coordinate Iron(II) Complex. Inorganic Chemistry, 2015, 54, 8415-8422.	4.0	13

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19	Quasi-Three-Coordinate Iron and Cobalt Terphenoxide Complexes {Ar^{iPr₈}OM(Î¼-O)}₂ (Ar^{iPr₈} =) Tj ETQq1 1 0.784314 rgB 2-Oxepinoxy Relevant to Benzene Oxidation. Inorganic Chemistry, 2015, 54, 8914-8922.	4.0	8
20	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
21	Magnetic blocking in a linear iron(I) complex. Nature Chemistry, 2013, 5, 577-581.	13.6	562
22	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
23	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
24	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
25	Fading of modern Prussian blue pigments in linseed oil medium. Journal of Analytical Atomic Spectrometry, 2011, 26, 930.	3.0	43
26	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
27	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
28	A study of the high temperature spin reorientation in YCoFe₃B. Journal of Physics Condensed Matter, 2009, 21, 186001.	1.8	5
29	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
30	Synthesis and Characterization of Two Intensely Colored Tris(benzoylcyanoxime)iron(II) Anionic Complexes. Inorganic Chemistry, 2008, 47, 8704-8713.	4.0	39
31	Synthesis and characterization of two metallic spin-glass phases ofFeMo4Ge3. Physical Review B, 2008, 77, .	3.2	4
32	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
33	The influence of chemical composition on the magnetic properties of Fe1.5â€“xCoxRh0.5Mo3N (0 â‰¤xâ‰¤ 1.5). Journal of Materials Chemistry, 2007, 17, 4785.	6.7	6
34	Antimony-121 MÃ¶ssbauer Spectral Study of the Eu₁₄MnSb₁₁ and Yb₁₄MnSb₁₁ Zintl Compounds. Inorganic Chemistry, 2007, 46, 10736-10740.	4.0	11
35	Synthesis and characterization of carbon nanotubes grown on montmorillonite clay catalysts. Journal of Materials Science, 2007, 42, 8671-8689.	3.7	18
36	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

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37	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
38	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
39	Magnetic and electronic properties ofEu4Sr4Ga16Ge30. Physical Review B, 2006, 73, .	3.2	24
40	Direct Experimental Evidence for Atomic Tunneling of Europium in CrystallineEu8Ga16Ge30. Physical Review Letters, 2006, 97, 017401.	7.8	70
41	3D Characterization of the Carbon Distribution in a Medium Carbon Steel. , 2006, , .		0
42	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
43	Einstein oscillators that impede thermal transport. American Journal of Physics, 2005, 73, 110-118.	0.7	48
44	Fe-Core/Au-Shell Nanoparticles: Growth Mechanisms, Oxidation and Aging Effects. Materials Research Society Symposia Proceedings, 2005, 887, 1.	0.1	2
45	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
46	MÃ¶ssbauer spectral study of the magnetocaloricFeMnP1â^'xAsxcompounds. Physical Review B, 2004, 70, .	3.2	35
47	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
48	A MÃ¶ssbauer Spectral Study of the Hull Steel and Rusticles Recovered from the Titanic. Hyperfine Interactions, 2004, 155, 1-13.	0.5	8
49	A Study of the Electronic Spin-State Crossover in {Fe[HC(3,4,5-Me3pz)3]2}(BF4)2. European Journal of Inorganic Chemistry, 2004, 2004, 3345-3352.	2.0	20
50	Characterization and magnetic properties of core/shell structured Fe/Au nanoparticles. Journal of Applied Physics, 2004, 95, 6804-6806.	2.5	81
51	Electronic structure of thallium filled skutterudites studied by x-ray absorption and MÃ¶ssbauer spectroscopy. Journal of Applied Physics, 2002, 92, 7236-7241.	2.5	12
52	Morphologic and magnetic properties of Pd100â^'xFex nanoparticles prepared by ultrasound assisted electrochemistry. Journal of Applied Physics, 2002, 92, 2634-2640.	2.5	27
53	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
54	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

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55	MÃ¶ssbauer effect study of filled antimonide skutterudites. Physical Review B, 1999, 60, 7410-7418.	3.2	64
56	Solid State Dynamics of Fe3(CO)12 Revisited. Inorganic Chemistry, 1996, 35, 4532-4533.	4.0	8
57	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
58	MÃ¶ssbauer Spectroscopy of Europium-Containing Compounds. , 1989, , 513-597.		29
59	Goldanskii-Karyagin asymmetry in Fe3(CO)12. Hyperfine Interactions, 1988, 40, 299-302.	0.5	4
60	Moessbauer effect study of triiron dodecacarbonyl. Inorganic Chemistry, 1988, 27, 1524-1529.	4.0	24
61	57Fe and 125Te Mossbauer Study of LiFeCo3TeO8 and LiFeNi3TeO8. Materials Research Society Symposia Proceedings, 1980, 3, 495.	0.1	0