

# 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	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) <sub>2</sub> (BF <sub>4</sub> ) <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2018, 140, 8526-8534.	13.7	151
5	Reversible CO Scavenging via Adsorbate-Dependent Spin State Transitions in an Iron(II)-Triazolate Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 5594-5602.	13.7	141
6	A Synthetic, Structural, Magnetic, and Spectral Study of Several {Fe[tris(pyrazolyl)methane] <sub>2</sub> }(BF <sub>4</sub> ) <sub>2</sub> Complexes: A Observation of an Unusual Spin-State Crossover. <i>Inorganic Chemistry</i> , 2001, 40, 1508-1520.	4.0	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 <sub>3</sub> ) <sub>3</sub> ) <sub>2</sub> ] <sup>+</sup> . <i>Inorganic Chemistry</i> , 2013, 52, 13123-13131.	4.0	99
9	Confinement of atomically defined metal halide sheets in a metal-organic framework. <i>Nature</i> , 2020, 577, 64-68.	27.8	84
10	Characterization and magnetic properties of core/shell structured Fe/Au nanoparticles. <i>Journal of Applied Physics</i> , 2004, 95, 6804-6806.	2.5	81
11	Formation of Third Generation Poly(pyrazolyl)borate Ligands from Alkyne Coupling Reactions of Fe[(p-IC <sub>6</sub> H <sub>4</sub> )B(3-Rpz) <sub>3</sub> ] <sub>2</sub> (R = H, Me; pz = Pyrazolyl): A Pathways toward Controlling an Iron(II) Electronic Spin-State Crossover. <i>Journal of the American Chemical Society</i> , 2005, 127, 2303-2316.	13.7	79
12	Study of the high-temperature spin-state crossover in the iron(II) pyrazolylborate complex Fe[HB(pz) <sub>3</sub> ] <sub>2</sub> . <i>Inorganic Chemistry</i> , 1989, 28, 4406-4414.	4.0	76
13	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
14	Direct Experimental Evidence for Atomic Tunneling of Europium in Crystalline Eu <sub>8</sub> Ga <sub>16</sub> Ge <sub>30</sub> . <i>Physical Review Letters</i> , 2006, 97, 017401.	7.8	70
15	Mössbauer effect study of filled antimonide skutterudites. <i>Physical Review B</i> , 1999, 60, 7410-7418.	3.2	64
16	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
17	Electron Hopping through Double-Exchange Coupling in a Mixed-Valence Diiminobenzoquinone-Bridged Fe <sub>2</sub> Complex. <i>Journal of the American Chemical Society</i> , 2015, 137, 12617-12626.	13.7	52
18	Einstein oscillators that impede thermal transport. <i>American Journal of Physics</i> , 2005, 73, 110-118.	0.7	48

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19	Fading of modern Prussian blue pigments in linseed oil medium. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 930.	3.0	43
20	Synthesis and Characterization of Two Intensely Colored Tris(benzoylcyanoxime)iron(II) Anionic Complexes. <i>Inorganic Chemistry</i> , 2008, 47, 8704-8713.	4.0	39
21	Lattice dynamics in the $\text{FeSb}_3$ skutterudite. <i>Physical Review B</i> , 2011, 84, .	3.2	39
22	Mössbauer spectral study of the magnetocaloric $\text{FeMnP1-xAsx}$ compounds. <i>Physical Review B</i> , 2004, 70, .	3.2	35
23	The Instability of $\text{Ni}\{\text{N}(\text{SiMe}_3)_2\}_2$ : A Fifty Year Old Transition Metal Silylamide Mystery. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12914-12917.	13.8	35
24	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
25	Mössbauer Spectroscopy of Europium-Containing Compounds. , 1989, , 513-597.		29
26	Slow magnetic relaxation and electron delocalization in an $S=9/2$ iron(II/III) complex with two crystallographically inequivalent iron sites. <i>Journal of Chemical Physics</i> , 2011, 134, 174507.	3.0	28
27	Morphologic and magnetic properties of $\text{Pd}_{100-x}\text{Fe}_x$ nanoparticles prepared by ultrasound assisted electrochemistry. <i>Journal of Applied Physics</i> , 2002, 92, 2634-2640.	2.5	27
28	Versatility in the binding of 2-pyrazinocarboxylate with iron. Synthesis, structure and magnetic properties of iron(ii) and iron(iii) complexes. <i>Dalton Transactions</i> , 2006, , 1675-1684.	3.3	25
29	Moessbauer effect study of triiron dodecacarbonyl. <i>Inorganic Chemistry</i> , 1988, 27, 1524-1529.	4.0	24
30	Magnetic and electronic properties of $\text{Eu}_4\text{Sr}_4\text{Ga}_{16}\text{Ge}_{30}$ . <i>Physical Review B</i> , 2006, 73, .	3.2	24
31	A magnetic and Mössbauer spectral study of the spin reorientation in $\text{NdFe}_{11}\text{Ti}$ and $\text{NdFe}_{11}\text{TiH}$ . <i>Journal of Applied Physics</i> , 2004, 95, 6308-6316.	2.5	22
32	Reply to "Comment on "Mössbauer effect study of filled antimonide skutterudites" ". <i>Physical Review B</i> , 2000, 62, 6829-6831.	3.2	20
33	A Study of the Electronic Spin-State Crossover in $\{\text{Fe}[\text{HC}(3,4,5\text{-Me}_3\text{pz})_3]_2\}(\text{BF}_4)_2$ . <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 3345-3352.	2.0	20
34	Synthesis and characterization of carbon nanotubes grown on montmorillonite clay catalysts. <i>Journal of Materials Science</i> , 2007, 42, 8671-8689.	3.7	18
35	Effect of Defect Site Preorganization on Fe(III) Grafting and Stability: A Comparative Study of Delaminated Zeolite vs Amorphous Silica Supports. <i>Chemistry of Materials</i> , 2017, 29, 6480-6492.	6.7	18
36	Best Practices and Protocols in Mössbauer Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 3878-3904.	6.7	14

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37	Combined Mössbauer Spectral and Density Functional Study of an Eight-Coordinate Iron(II) Complex. <i>Inorganic Chemistry</i> , 2015, 54, 8415-8422.	4.0	13
38	Electronic structure of thallium filled skutterudites studied by x-ray absorption and Mössbauer spectroscopy. <i>Journal of Applied Physics</i> , 2002, 92, 7236-7241.	2.5	12
39	Superstructure in RE <sub>2-x</sub> Fe <sub>4</sub> Si <sub>14-y</sub> (RE = Y, Gd~Lu) Characterized by Diffraction, Electron Microscopy, and Mössbauer Spectroscopy. <i>Inorganic Chemistry</i> , 2006, 45, 10503-10519.	4.0	12
40	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
41	Antimony-121 Mössbauer Spectral Study of the Eu <sub>14</sub> MnSb <sub>11</sub> and Yb <sub>14</sub> MnSb <sub>11</sub> Zintl Compounds. <i>Inorganic Chemistry</i> , 2007, 46, 10736-10740.	4.0	11
42	A structural, magnetic, and Mössbauer spectral study of the DyCo <sub>4-x</sub> Fe <sub>x</sub> B compounds, with x=0~3. <i>Journal of Applied Physics</i> , 2008, 103, 093917.	2.5	10
43	Solid State Dynamics of Fe <sub>3</sub> (CO) <sub>12</sub> Revisited. <i>Inorganic Chemistry</i> , 1996, 35, 4532-4533.	4.0	8
44	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
45	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
46	Quasi-Three-Coordinate Iron and Cobalt Terphenoxide Complexes {Ar <sup>sup</sup> Pr <sub>8</sub> OM(1/4-O)} <sub>2</sub> (Ar <sup>sup</sup> Pr <sub>8</sub> ) <sub>2</sub> (Ar <sup>sup</sup> Pr <sub>8</sub> ) <sub>2</sub> Tj ETQq0 0 0 rgBT /Overl	4.0	8
47	2-Oxepinoxy Relevant to Benzene Oxidation. <i>Inorganic Chemistry</i> , 2015, 54, 8914-8922. Mössbauer Spectral Properties of Yttrium Iron Garnet, Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> , and Its Isovalent and Nonisovalent Yttrium-Substituted Solid Solutions. <i>Inorganic Chemistry</i> , 2016, 55, 3413-3418.	4.0	8
48	Mössbauer Spectral Study of the Low-Temperature Electronic and Magnetic Properties of $\hat{1}\pm$ -FePO <sub>4</sub> and the Mixed Valence Iron(II/III) Phosphate SrFe <sub>3</sub> (PO <sub>4</sub> ) <sub>3</sub> . <i>Inorganic Chemistry</i> , 2019, 58, 13314-13322.	4.0	8
49	The influence of chemical composition on the magnetic properties of Fe <sub>1.5</sub> ~xCoxRh <sub>0.5</sub> Mo <sub>3</sub> N (0 ~x~1.5). <i>Journal of Materials Chemistry</i> , 2007, 17, 4785.	6.7	6
50	Comment on "Calibration of <sup>57</sup> 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
51	A study of the high temperature spin reorientation in YCoFe <sub>3</sub> B. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 186001.	1.8	5
52	Search for Electron Delocalization from [Fe(CN) <sub>6</sub> ] <sup>3-</sup> to the Dication of Viologen in (DNP) <sub>3</sub> [Fe(CN) <sub>6</sub> ] <sub>2</sub> ·10H <sub>2</sub> O. <i>Inorganic Chemistry</i> , 2017, 56, 6477-6488.	4.0	5
53	Goldanskii-Karyagin asymmetry in Fe <sub>3</sub> (CO) <sub>12</sub> . <i>Hyperfine Interactions</i> , 1988, 40, 299-302.	0.5	4
54	Synthesis and characterization of two metallic spin-glass phases of FeMo <sub>4</sub> Ge <sub>3</sub> . <i>Physical Review B</i> , 2008, 77, .	3.2	4

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55	Synthesis, Physicochemical Characterization, and Catalytic Evaluation of Fe <sup>3+</sup> -Containing SSZ-70 Zeolite. ACS Catalysis, 2022, 12, 6464-6477.	11.2	4
56	A structural, magnetic, and Mössbauer spectral study of the TbCo <sub>4-x</sub> Fe <sub>x</sub> B compounds with x=, 1, and 2. Journal of Applied Physics, 2009, 105, .	2.5	3
57	Fe-Core/Au-Shell Nanoparticles: Growth Mechanisms, Oxidation and Aging Effects. Materials Research Society Symposia Proceedings, 2005, 887, 1.	0.1	2
58	Impact of Lithium and Potassium Cations on the Mössbauer Spectral and Electrical Properties of Two Mixed-Valence Iron(II/III) Phosphites. Chemistry of Materials, 2020, 32, 5534-5540.	6.7	2
59	Revealing the hidden hyperfine interactions in $\mu$ -iron. Physical Review B, 2020, 101, .	3.2	2
60	<sup>57</sup> Fe and <sup>125</sup> Te Mossbauer Study of LiFeCo <sub>3</sub> TeO <sub>8</sub> and LiFeNi <sub>3</sub> TeO <sub>8</sub> . Materials Research Society Symposia Proceedings, 1980, 3, 495.	0.1	0
61	3D Characterization of the Carbon Distribution in a Medium Carbon Steel. , 2006, , .		0