Johan Linden

List of Publications by Year in Descending Order

114 papers	1,281 citations	18 h-index	31 g-index
124 ext. papers	1,363 ext. citations	3 avg, IF	3.71 L-index

#	Paper	IF	Citations
114	Spontaneously expanding and shrinking soap bubbles. *Physics Education*, **2022**, 57, 035014	0.8	
113	Two orders of magnitude enhancement in oxygen evolution reactivity of La0.7Sr0.3Fe1−xNixO3−δ by improving the electrical conductivity. *Nano Energy*, **2021**, 93, 106794	17.1	4
112	A diamagnetic iron complex and its twisted sister - structural evidence on partial spin state change in a crystalline iron complex. *Dalton Transactions*, **2021**, 50, 15831-15840	4.3	0
111	The rolling elliptical cylinder. *American Journal of Physics*, **2021**, 89, 358-364	0.7	2
110	Dynamical magnetic behavior of anisotropic spinel-structured ferrite for GHz technologies. *Scientific Reports*, **2021**, 11, 614	4.9	3
109	Mössbauer Study of BaTh2Fe4As4(N0.7O0.3)2. *Physica Status Solidi (B): Basic Research*, **2021**, 258, 2100125	1.3	0
108	Suppression of the nuclear forward scattering signal in GdBaFe2O5 and PrBaFe2O5. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2021**, 416, 127652	2.3	
107	Investigating the vibrational lattice anisotropy in FeTe0.5Se0.5 using magnetically oriented crystallites. *Solid State Communications*, **2020**, 312, 113877	1.6	1
106	Mechanical resonance in the rear wheels of a shopping trolley. *European Journal of Physics*, **2020**, 42, 015010	0.8	
105	Upside down glass of water experiment revisited. *Physics Education*, **2020**, 55, 055023	0.8	0
104	FeSe: a possible ferrimagnetic half-metal?. *Journal of Physics Condensed Matter*, **2020**, 32, 455801	1.8	0
103	Hackmanite: The Natural Glow-in-the-Dark Material. *Chemistry of Materials*, **2020**, 32, 8895-8905	9.6	9
102	Mössbauer study of Ba2Ti2Fe2As4O. *Journal of Alloys and Compounds*, **2020**, 848, 155706	5.7	1
101	Effect of Blocking and Superconducting Layer Doping on the Superconductivity and Magnetic Properties of Polycrystalline Sr2CaCu2O6. *Journal of Superconductivity and Novel Magnetism*, **2018**, 31, 2711-2717	1.5	
100	Mössbauer study of magnetism in Fe3Se4. *Journal of Alloys and Compounds*, **2018**, 746, 135-139	5.7	4
99	Slow physics: recording the ascent and descent of a water column. *Physics Education*, **2018**, 53, 045003	0.8	1
98	Demonstrating the vector character of angular momentum using a tandem fidget spinner. *Physics Education*, **2018**, 53, 023004	0.8	

97	Demonstrating the conservation of angular momentum using spherical magnets. *American Journal of Physics*, **2018**, 86, 25-30	0.7	1
96	Using the terminal velocity for determining the size of minute gas bubbles in water. *Physics Education*, **2018**, 53, 063005	0.8	
95	Magnetic safety matches. *European Journal of Physics*, **2017**, 38, 045503	0.8	
94	Solvent-free □green□amidation of stearic acid for synthesis of biologically active alkylamides over iron supported heterogeneous catalysts. *Applied Catalysis A: General*, **2017**, 542, 350-358	5.1	7
93	Orbital occupancy evolution across spin- and charge-ordering transitions in YBaFe 2 O 5. *Journal of Solid State Chemistry*, **2017**, 252, 119-128	3.3	4
92	57 Fe M□sbauer spectroscopy investigation of La 0.7 Ca 0.3 Mn 0.5 Fe 0.5 O 3. *Results in Physics*, **2016**, 6, 1175-1177	3.7	1
91	Local structures in mixed LixFe1□MyPO4 (M=Co, Ni) electrode materials. *Journal of Solid State Chemistry*, **2015**, 230, 404-410	3.3	4
90	M□sbauer study of hyperfine interactions in EuFe2(As1□Px)2 and BaFe2(As1□Px)2. *Journal of Magnetism and Magnetic Materials*, **2015**, 378, 327-332	2.8	2
89	57Fe M□sbauer study of a secondary phase in FeSe1□ with a large quadrupole splitting. *Hyperfine Interactions*, **2014**, 226, 341-349	0.8	3
88	Synthesis of carbon nanotubes on FexOy doped Al2O3□rO2 nanopowder. *Powder Technology*, **2014**, 266, 106-112	5.2	7
87	Evolution of the internal magnetic field in chalcogenide superconductors for various x values. *Journal of Magnetism and Magnetic Materials*, **2014**, 357, 82-86	2.8	5
86	Iron orbital occupancies upon valence mixing of charge-ordered GdBaFeIIFeIIIO5. *Hyperfine Interactions*, **2014**, 226, 329-339	0.8	3
85	Isomerization of □Pinene Oxide Over Iron-Modified Zeolites. *Topics in Catalysis*, **2013**, 56, 696-713	2.3	30
84	Evidence of magnetic broadening in M□sbauer spectra of superconducting FeTe 0.8 S 0.2. *Hyperfine Interactions*, **2013**, 221, 15-21	0.8	4
83	A 57Fe M□sbauer study of FeTe1□Sx. *Journal of Magnetism and Magnetic Materials*, **2013**, 329, 129-132	2.8	6
82	Opening of monoterpene epoxide to a potent anti-Parkinson compound of para-menthane structure over heterogeneous catalysts. *Reaction Kinetics, Mechanisms and Catalysis*, **2013**, 110, 449-458	1.6	13
81	Modeling hyperfine parameters observed from the charge-ordered to valence-mixed state of NdBaFe2O5. *Journal of Physics Condensed Matter*, **2012**, 24, 376002	1.8	3
80	A 57Fe M□sbauer study on the FeSe and Fe(Se,Te) superconductors: discontinuities in the hyperfine parameters at T c. *Hyperfine Interactions*, **2012**, 208, 133-136	0.8	7

79	Evidence of magnetic broadening in Mössbauer spectra of superconducting FeTe 0.8 S 0.2 **2012**, 109-115		
78	Magnetic properties and structural characterization of iron oxide nanoparticles formed by Streptococcus suis Dpr and four mutants. *Journal of Biological Inorganic Chemistry*, **2011**, 16, 799-807	3.7	11
77	Observation of lattice softening at . *Solid State Communications*, **2011**, 151, 130-134	1.6	22
76	A 57Fe Mössbauer study on the FeSe and Fe(Se,Te) superconductors: discontinuities in the hyperfine parameters at Tc **2011**, 713-716		
75	NdBaFe2O5+w and steric effect of Nd on valence mixing and ordering of Fe. *Journal of Solid State Chemistry*, **2010**, 183, 2703-2713	3.3	8
74	Evolution of the hyperfine parameters of Fe in superconducting LiFeAs as observed by 57Fe Mössbauer spectroscopy. *Solid State Communications*, **2010**, 150, 1525-1528	1.6	7
73	Magnetic properties of spinel oxides, InFeMO4 (M=Mg, Co and Ni). *Solid State Communications*, **2007**, 144, 249-254	1.6	6
72	: Valence mixing and charge ordering are two separate cooperative phenomena. *Journal of Solid State Chemistry*, **2007**, 180, 148-157	3.3	7
71	Metal valences in electron-doped (Sr,La)2FeTaO6 double perovskite: A 57Fe Mössbauer spectroscopy study. *Journal of Solid State Chemistry*, **2007**, 180, 440-445	3.3	4
70	Studies on InFeMO4 (M=Mg, Co, Ni, Cu and Zn) compounds: Crystal structure and cation distribution. *Journal of Solid State Chemistry*, **2007**, 180, 2316-2322	3.3	5
69	Magnetic properties of fine SFMO particles: Superparamagnetism. *Journal of Magnetism and Magnetic Materials*, **2007**, 309, 278-284	2.8	36
68	EuBaFe2O5: Extent of charge ordering by Mössbauer spectroscopy and high-intensity high-resolution powder diffraction. *Journal of Solid State Chemistry*, **2007**, 180, 138-147	3.3	12
67	Measurement of local magnetic fields in the CuO2 planes of CuBa2YCu2O7-delta superconductors. *Physical Review Letters*, **2007**, 98, 067001	7.4	5
66	Transport and magnetotransport properties across the two-step Verwey transition in BaGdFe2O5+w. *Physical Review B*, **2006**, 73,	3.3	6
65	Large low-field magnetoresistance effect in Sr2FeMoO6 homocomposites. *Applied Physics Letters*, **2005**, 86, 072510	3.4	11
64	Isovalent-substitution effect on the Verwey-type transition in the A-site-ordered double perovskite (Ba,Sr)RFe2O5. *Physical Review B*, **2004**, 70,	3.3	5
63	Exploring the Verwey-Type Transition in GdBaFe2O5+w Using 57Fe Mössbauer Spectroscopy. *Hyperfine Interactions*, **2004**, 156/157, 321-325	0.8	7
62	Iron valence in double-perovskite (Ba,Sr,Ca)2FeMoO6: isovalent substitution effect. *Journal of Solid State Chemistry*, **2004**, 177, 2655-2662	3.3	34

61	Iron and molybdenum valences in double-perovskite (Sr,Nd)2FeMoO6: electron-doping effect. *Solid State Communications*, **2004**, 129, 129-133	1.6	37
60	Valence mixing, separation and ordering in double-cell perovskite GdBaFe2O5+w. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, E267-E268	2.8	2
59	Mössbauer spectroscopy investigation of the FeII/III mixed-valence state and the B-site order in double perovskite A2FeMoO6. *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 843-844	2.8	3
58	Space group determination of the BaY(Cu0.5Fe0.5)2O5+□phase using a convergent-beam electron-diffraction technique. *Journal of Solid State Chemistry*, **2004**, 177, 1958-1964	3.3	5
57	Structural and magnetic properties of MSr2Y1.5Ce0.5Cu2Oz (M-1222) compounds with M=Fe and Co. *Journal of Applied Physics*, **2004**, 95, 6690-6692	2.5	7
56	Simple and Efficient Route to Prepare Homogeneous Samples of Sr2FeMoO6 with a High Degree of Fe/Mo Order. *Chemistry of Materials*, **2004**, 16, 4337-4342	9.6	51
55	Structural, magnetic and spectroscopic investigations of europium oxychloride, EuOCl. *Journal of Alloys and Compounds*, **2004**, 380, 296-302	5.7	22
54	Exploring the Verwey-Type Transition in GdBaFe2O5+w Using 57Fe Mössbauer Spectroscopy **2004**, 321-325		
53	Structural aspects of Pr1□xSrxFeO3□w. *Journal of Solid State Chemistry*, **2003**, 173, 148-163	3.3	19
52	Substitution of Co3+ in YBa2Fe3O8. *Journal of Solid State Chemistry*, **2003**, 172, 73-80	3.3	13
51	Valence State of Iron in the Sr2Fe(Mo,W,Ta)O6.0 Double-Perovskite System: an Fe K-edge and L2,3-edge XANES Study. *Chemistry of Materials*, **2003**, 15, 4118-4121	9.6	29
50	Observation of antiphase boundaries in Sr2FeMoO6. *Physical Review B*, **2003**, 68,	3.3	45
49	Interplay between Cu and Fe Valences in BaR(Cu0.5Fe0.5)2O5+□Double Perovskites with R=Lu, Yb, Y, Eu, Sm, Nd, and Pr. *Journal of Solid State Chemistry*, **2002**, 166, 118-127	3.3	24
48	Intermixing of Fe at Cu(1)-chain and Cu(2)-plane sites in FeSr2YCu2O7.30 system: A neutron diffraction and Mössbauer spectroscopic study. *Physica B: Condensed Matter*, **2002**, 312-313, 62-64	2.8	7
47	Influence of W/Ta substitution at the Mo site on the Fe valence and magnetoresistive properties of Sr2FeMoO6. *Physica B: Condensed Matter*, **2002**, 312-313, 787-788	2.8	2
46	Hole-doping effect on the Verwey-type transition and magnetoresistivity of Ba(Sm,Ca)Fe2O5+□ *Solid State Communications*, **2002**, 121, 269-274	1.6	5
45	Control of Fe valence state and magnetoresistance by means of T=Ta and W substitution in Sr2Fe(Mo1□xTx)O6. *Physical Review B*, **2002**, 66,	3.3	30
44	Magnetoresistance peak in the vicinity of the charge disproportionation/ordering transition in the R1/3Sr2/3FeO3□(R=La, Pr) perovskite. *Solid State Communications*, **2001**, 119, 159-162	1.6	7

43	Coexistence of intrinsic and extrinsic magnetoresistance in the double-perovskite Sr2Fe(Mo1−xWx)O6−w system. *Applied Physics Letters*, **2001**, 78, 2736-2738	3.4	17
42	Oxygen stoichiometry in the (Ba0.5La0.5)(Fe1−xCux)O3−w (x=0–1) perovskite system. *Solid State Sciences*, **2001**, 3, 803-808		2
41	Verwey transition in mixed-valence TbBaFe2O5: Two attempts to order charges. *Physical Review B*, **2001**, 64,	3.3	67
40	Iron mixed-valence compounds, BaSm(Cu0.5+xFe0.5−x)2O5+δ. *Physica C: Superconductivity and Its Applications*, **2000**, 338, 121-125	1.3	10
39	Iron mixed-valence compounds, BaSm(Cu0.5+xFe0.5−x)2O5+δ. *Physica C: Superconductivity and Its Applications*, **2000**, 338, 126-131	1.3	1
38	Magnetic properties, oxygen content and metal valences in BaRE(Cu0.5Fe0.5)2O5+δ with RE=Lu, Yb, Y, Eu, Sm, Nd and Pr. *Physica C: Superconductivity and Its Applications*, **2000**, 338, 132-136	1.3	3
37	Magnetoresistance effect in the fluctuating-valence BaSmFe2O5+w system. *Applied Physics Letters*, **2000**, 77, 1683-1685	3.4	13
36	Evidence for valence fluctuation of Fe in Sr2FeMoO6−w double perovskite. *Applied Physics Letters*, **2000**, 76, 2925-2927	3.4	180
35	Novel methods of synthesis and wet-chemicalredox analysis for magnetoresistive double-perovskite Sr2FeMoO6−w. *Journal of Materials Chemistry*, **2000**, 10, 2342-2345		41
34	Valence-state mixing and separation in SmBaFe2O5+w. *Physical Review B*, **1999**, 60, 15251-15260	3.3	55
33	Layered (Cu,Fe) oxides of double perovskite structure. II. Extension of solid solubility of copper in (Ba,La)Y(Cu0.5+xFe0.5−x)2O5+δ via high-pressure heat treatment. *Physical Review B*, **1999**, 59, 1377-1382	3.3	19
32	151Eu Mössbauer study of the CuEuO2+δ delafossite. *Physica B: Condensed Matter*, **1999**, 271, 223-229	2.8	2
31	Oxygen Stoichiometry in BaRE(Cu0.5Fe0.5)2O5+δ Compounds with Perovskite or Double Perovskite Structure. *Journal of Low Temperature Physics*, **1999**, 117, 861-865	1.3	4
30	Partial Oxygen Ordering in Cubic PerovskiteREBa2Fe3O8+w(RE=Gd, Eu, Sm, Nd). *Journal of Solid State Chemistry*, **1999**, 144, 398-404	3.3	11
29	A57Fe Mössbauer Study of the Cubic Perovskite-Type Phase LaBa2Fe3O8+w(0≤w≤0.20. *Journal of Solid State Chemistry*, **1998**, 138, 87-97	3.3	9
28	A57Fe Mössbauer Study ofREBa2Fe3O8+wTriple Perovskites with Varied Oxygen Content (RE=Dy, Er, and Y). *Journal of Solid State Chemistry*, **1998**, 139, 168-175	3.3	13
27	Layered (Cu,Fe) oxides of double perovskite structure: Correlation between structural and magnetic-property changes in BaY(Cu0.5Fe0.5)2O5+δ upon high-pressure heat treatment. *Physical Review B*, **1998**, 58, 3371-3376	3.3	18
26	Annealing characteristics and calcium doping effects in the superconducting Pb2CuSr2[Eu1−xCax]Cu2O8+δ system. *Physica C: Superconductivity and Its Applications*, **1997**, 292, 225-232	1.3	5

25	Investigations of the system by Mössbauer resonance and x-ray diffraction. *Superconductor Science and Technology*, **1996**, 9, 399-404	3.1	7
24	Time-dependent absorption of gamma-radiation under high-frequency magnetic excitation of 57Fe. *Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics*, **1996**, 18, 385-388		
23	Mössbauer-NMR double resonance. *Physical Review B*, **1995**, 52, 10268-10277	3.3	15
22	Iron substitution effects in YBa2Cu4O8synthesized by the sol-gel technique. *Superconductor Science and Technology*, **1995**, 8, 79-84	3.1	14
21	Sol-gel synthesis and characterization of superconducting (Y1-xEux)Ba2(Cu1-y 57Fey)4O8 samples. *Journal of Alloys and Compounds*, **1995**, 225, 586-590	5.7	18
20	Effect of LiF addition on the formation of the superconducting YBa2Cu4O8 phase. *Journal of Materials Chemistry*, **1995**, 5, 875-878		8
19	Synthesis and Chemical Characterization of Pb2Ba2EuCu3Oz Samples **1995**, 273-276		1
18	151Eu Mössbauer spectroscopy and x-ray-diffraction studies on the Pb2Ba2EuCu3O8+ delta system. *Physical Review B*, **1994**, 50, 16040-16043	3.3	3
17	Precise determination of the hyperfine parameters of europium in multifluorite perovskites by 151Eu Mössbauer spectroscopy. *Physical Review B*, **1994**, 49, 15280-15286	3.3	6
16	Europium substitution effects in superconducting YBa2Cu4O8 synthesized under one atmosphere oxygen pressure. *Physical Review B*, **1994**, 50, 4154-4158	3.3	11
15	Double resonance experiments in57Fe Mössbauer spectroscopy. *Hyperfine Interactions*, **1994**, 92, 1123-1126	2.6	1
14	Application of151Eu Mössbauer spectroscopy to studies of electric field gradients in high-temperature superconductors. *Hyperfine Interactions*, **1994**, 93, 1635-1639	0.8	
13	Combined 57Fe Mössbauer-NMR experiments using FeNi alloys. *Nuclear Instruments & Methods in Physics Research B*, **1993**, 76, 146-148	1.2	3
12	Characterization of the europium substituted superconducting Bi2Sr2CaCu2O8+yphase. *Superconductor Science and Technology*, **1992**, 5, 476-481	3.1	4
11	Observation of Mössbauer resonance line splitting caused by Rabi oscillations. *Physical Review Letters*, **1992**, 69, 2815-2818	7.4	46
10	Europium-based high-temperature superconductors studied by x-ray diffraction and 151Eu Mössbauer spectroscopy. *Physical Review B*, **1992**, 46, 8534-8541	3.3	15
9	Mössbauer effect in confined liquid molecules. *Physical Review B*, **1992**, 46, 5194-5202	3.3	1
8	Studies of hyperfine interactions inRBa2(Cu1-x 57Fex)3O7-δhigh-T c superconductors. *Hyperfine Interactions*, **1990**, 55, 1399-1403	0.8	7

7	Preparative and Mössbauer studies of Bi2Sr2Ca n-1Cu n O y compounds withn=2 or 3. *Hyperfine Interactions*, **1990**, 55, 1405-1409	0.8	2
6	Influence of high-frequency magnetic fields on Mössbauer resonance. *Hyperfine Interactions*, **1990**, 58, 2451-2455	0.8	
5	Characterization of superconducting Bi2Sr2Can-1CunO4+2n phases with 57Fe Mössbauer spectroscopy. *Physical Review B*, **1990**, 42, 4212-4218	3.3	18
4	Influence of high-frequency modulation on Mössbauer resonance: Experiments with67Zn. *Hyperfine Interactions*, **1989**, 47-48, 139-158	0.8	3
3	Poster contributions. *Hyperfine Interactions*, **1989**, 47-48, 433-589	0.8	
2	Growth of 57 Fe-doped YBa 2 Cu 3 O 7 single crystals for Mössbauer and susceptibility measurements. *Physica C: Superconductivity and Its Applications*, **1989**, 162-164, 1259-1260	1.3	1
1	Susceptibility and Mössbauer Studies of Orthorhombic and Tetragonal EuBa2(Cu1-x57Fex)3O7- **1988**, 209-215		4