JÃ¶rg TÃ¶pfer

List of Publications by Year
in descending order

109 papers	3,718 citations	126907 33 h-index	144013 57 g-index
110 all docs	110 docs citations	110 times ranked	4034 citing authors

#	Article	IF	Citations
1	LaMnO3+Î´Revisited. Journal of Solid State Chemistry, 1997, 130, 117-128.	2.9	418
2	Synthesis and physical characterization of magnetite nanoparticles for biomedical applications. Materials Chemistry and Physics, 2008, 110, 426-433.	4.0	198
3	Transport and Magnetic Properties of the Perovskites La1-yMnO3and LaMn1-zO3. Chemistry of Materials, 1997, 9, 1467-1474.	6.7	146
4	Point defects and cation tracer diffusion in (CrxFe1 âˆ' x)3 âˆ' Î´O4 spinels. Solid State Ionics, 1995, 81, 251-266.	2.7	135
5	Hysteresis losses of magnetic nanoparticle powders in the single domain size range. Journal of Magnetism and Magnetic Materials, 2007, 308, 305-312.	2.3	120
6	Cation Valencies and Distribution in the Spinels NiMn2O4 and MzNiMn2âˆ'zO4 (M = Li, Cu) Studied by XPS. Physica Status Solidi A, 1992, 134, 405-415.	1.7	116
7	Synthesis of magnetite nanoparticles by thermal decomposition of ferrous oxalate dihydrate. Journal of Materials Science, 2008, 43, 5123-5130.	3.7	102
8	Synthesis and magnetic properties of La-substituted M-type Sr hexaferrites. Journal of Magnetism and Magnetic Materials, 2009, 321, 4045-4051.	2.3	98
9	Structural properties of (Bi0.5Na0.5)1âˆ'xBaxTiO3 lead-free piezoelectric ceramics. Journal of the European Ceramic Society, 2010, 30, 3445-3453.	5.7	90
10	Oxygen stoichiometry and expansion behavior of Ba0.5Sr0.5Co0.8Fe0.2O3âˆ'Î´. Solid State Ionics, 2010, 181, 64-70.	2.7	85
11	Ni-Cu-Zn Ferrites for low temperature firing: II. Effects of powder morphology and Bi2O3 addition on microstructure and permeability. Journal of Electroceramics, 2006, 16, 199-205.	2.0	81
12	Influence of dextran coating on the magnetic behaviour of iron oxide nanoparticles. Journal of Magnetism and Magnetic Materials, 2007, 311, 51-54.	2.3	67
13	Ni-Cu-Zn Ferrites for Low Temperature Firing: I. Ferrite Composition and its Effect on Sintering Behavior and Permeability. Journal of Electroceramics, 2005, 15, 215-221.	2.0	63
14	Evolution of an Oxygen Near-Edge X-ray Absorption Fine Structure Transition in the Upper Hubbard Band in Î±-Fe₂O₃ upon Electrochemical Oxidation. Journal of Physical Chemistry C, 2011, 115, 5619-5625.	3.1	62
15	Microstructure and Electric Properties of CaCu₃Ti₄O₁₂ Multilayer Capacitors. Journal of the American Ceramic Society, 2015, 98, 141-147.	3.8	61
16	Influence of SiO2 and CaO additions on the microstructure and magnetic properties of sintered Sr-hexaferrite. Journal of the European Ceramic Society, 2005, 25, 1681-1688.	5.7	60
17	Conductivity data and preparation routes for NiMn2O4 thermistor ceramics. Journal of the European Ceramic Society, 1992, 9, 187-191.	5.7	57
18	Nanocrystalline magnetite and Mnâ€"Zn ferrite particles via the polyol process: Synthesis and magnetic properties. Materials Chemistry and Physics, 2011, 129, 337-342.	4.0	56

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19	Reinvestigation of the Fe-rich part of the pseudo-binary system SrOâ€“Fe2O3. Journal of Solid State Chemistry, 2009, 182, 2409-2416.	2.9	50
20	Thermoelectric properties of Ca3Co4O9 ceramics prepared by an alternative pressure-less sintering/annealing method. Journal of Alloys and Compounds, 2016, 659, 122-126.	5.5	49
21	High permeability Niâ€“Cuâ€“Zn ferrites through additive-free low-temperature sintering of nanocrystalline powders. Journal of the European Ceramic Society, 2012, 32, 1091-1098.	5.7	47
22	Preparation and physical properties of the solid solutions Cu1+xMn1âˆ’xO2 (). Journal of Solid State Chemistry, 2005, 178, 2751-2758.	2.9	46
23	Synthesis of nanocrystalline Mnâ€“Zn ferrite powders through thermolysis of mixed oxalates. Ceramics International, 2011, 37, 995-1002.	4.8	46
24	Microstructure and phase development in NiMn2O4 spinel ceramics during isothermal sintering. Journal of the European Ceramic Society, 1990, 6, 351-359.	5.7	44
25	Nonstoichiometry, point defects and magnetic properties in Sr2FeMoO6âˆ’Î´ double perovskites. Journal of Solid State Chemistry, 2012, 185, 76-81.	2.9	44
26	Effect of sintering conditions on microstructure and dielectric properties of CaCu3Ti4O12 (CCTO) ceramics. Journal of Electroceramics, 2015, 34, 241-248.	2.0	44
27	Rareâ€Earthâ€Substituted Sr_{1âˆ’<i>x</i>}Ln_{<i>x</i>}Fe₁₂O₁₉ Hexagonal Ferrites. Journal of the American Ceramic Society, 2011, 94, 2109-2118.	3.8	42
28	Low-temperature sintering and magnetic properties of Sc- and In-substituted M-type hexagonal barium ferrites for microwave applications. Materials Research Bulletin, 2017, 86, 19-23.	5.2	40
29	NdFeB thick films prepared by tape casting. Journal of Magnetism and Magnetic Materials, 2003, 265, 337-344.	2.3	39
30	On the thermal stability of Co2Z hexagonal ferrites for low-temperature ceramic cofiring technologies. Journal of Magnetism and Magnetic Materials, 2008, 320, 1370-1376.	2.3	36
31	Low temperature sintering of sub-stoichiometric Niâ€“Cuâ€“Zn ferrites: Shrinkage, microstructure and permeability. Journal of Magnetism and Magnetic Materials, 2012, 324, 578-583.	2.3	36
32	Investigations on electronically conducting oxide systems XXIV[1]: Preparation and electrical properties of the spinel series CuzNiMn2âˆ’zO4. Solid State Ionics, 1993, 59, 249-256.	2.7	34
33	Soft Ferrite Materials for Multilayer Inductors. International Journal of Applied Ceramic Technology, 2006, 3, 455-462.	2.1	34
34	Highly sinter-active (Mgâ€“Cu)â€“Zn ferrite nanoparticles prepared by flame spray synthesis. Acta Materialia, 2007, 55, 1955-1964.	7.9	34
35	Nanocrystalline Mnâ€“Zn ferrites from mixed oxalates: Synthesis, stability and magnetic properties. Journal of Alloys and Compounds, 2010, 508, 433-439.	5.5	34
36	Hexagonal ferrites of X-, W-, and M-type in the system Srâ€“Feâ€“O: A comparative study. Journal of Solid State Chemistry, 2015, 226, 133-141.	2.9	34

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37	Integration of Niâ€Cuâ€Zn Ferrite in Low Temperature Coâ€fired Ceramics (<scp>LTCC</scp>) Modules. International Journal of Applied Ceramic Technology, 2012, 9, 18-28.	2.1	32
38	Sintering, microwave properties, and circulator applications of textured Sc-substituted M-type ferrite thick films. Journal of the European Ceramic Society, 2019, 39, 3077-3081.	5.7	32
39	Room Temperature Chemical Oxidation of Delafossite-Type Oxides. Journal of Solid State Chemistry, 1994, 111, 104-110.	2.9	30
40	Magnetic Nanoparticles for Biomedical Heating Applications. Zeitschrift Fur Physikalische Chemie, 2006, 220, 145-151.	2.8	29
41	Zn- and Cu-substituted Co2Y hexagonal ferrites: Sintering behavior and permeability. Journal of Magnetism and Magnetic Materials, 2012, 324, 1804-1808.	2.3	29
42	Sintering and electrical properties of Cu-substituted Zn-Co-Ni-Mn spinel ceramics for NTC thermistors thick films. Journal of the European Ceramic Society, 2022, 42, 2261-2267.	5.7	29
43	Chemical and structural effects on the high-temperature mechanical behavior of (1âˆ’<i>x</i>)(Na1/2Bi1/2)TiO3-<i>x</i>BaTiO3 ceramics. Journal of Applied Physics, 2015, 117, .	2.5	27
44	Structure, nonstoichiometry and magnetic properties of the perovskites Sr1âˆ’xCaxMnO3âˆ’Î´. Solid State Sciences, 2004, 6, 647-654.	3.2	26
45	Co/Ti-substituted M-type hexagonal ferrites for high-frequency multilayer inductors. Journal of Magnetism and Magnetic Materials, 2015, 384, 1-5.	2.3	25
46	Investigations on electronically conducting oxide systems XXVI. Preparation and properties of Ni6MnO8 and NiMnO3 - Î´ (Î´ â‰ˆ 0.02). Journal of Alloys and Compounds, 1993, 196, 75-79.	5.5	24
47	Microstructural effects in low loss power ferrites. Journal of the European Ceramic Society, 2005, 25, 3045-3049.	5.7	24
48	Evaluation of soft chemistry methods to synthesize Gd-doped CaMnO3âˆ’Î´ with improved thermoelectric properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 223, 185-193.	3.5	24
49	Thermopower analysis of substituted nickel manganite spinels. Materials Research Bulletin, 1994, 29, 225-232.	5.2	23
50	Complex additive systems for Mn-Zn ferrites with low power loss. Journal of Applied Physics, 2015, 117, .	2.5	23
51	Integration of CaCu3Ti4O12 capacitors into LTCC multilayer modules. Journal of the European Ceramic Society, 2015, 35, 3043-3049.	5.7	23
52	Flame pyrolysis: A preparation route for ultrafine powders of metastable?-SrMnO3 and NiMn2O4. Journal of Materials Science Letters, 1994, 13, 1111-1113.	0.5	22
53	Synthesis, sintering behavior and magnetic properties of Cu-substituted Co2Z hexagonal ferrites. Journal of Materials Science: Materials in Electronics, 2011, 22, 467-473.	2.2	21
54	Charge localization and magnetocrystalline anisotropy in La, Pr, and Nd substituted Sr hexaferrites. Physical Review B, 2015, 92, .	3.2	21

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55	A MÃ¶ssbauer investigation of Sr1â^’xLaxFe12O19 (0â‰¤xâ‰¤1) M-type hexaferrites. Physica B: Condensed Matter, 2015, 470-471, 33-38.	2.7	21
56	Investigations on the charge transport in LaMnO3 +Î´at low temperatures. Journal of Materials Chemistry, 1996, 6, 1511-1516.	6.7	20
57	Multi-pole magnetization of NdFeB sintered magnets and thick films for magnetic micro-actuators. Sensors and Actuators A: Physical, 2004, 113, 257-263.	4.1	19
58	Thermal decomposition of mixed crystals NixMn3â^’x(C2O4)3Â· 6H2O. Thermochimica Acta, 1992, 202, 281-289.	2.7	18
59	Mg?Cu?Zn Ferrites for Multilayer Inductors. International Journal of Applied Ceramic Technology, 2007, 4, 415-422.	2.1	18
60	Sintering behavior, microstructure and thermoelectric properties of calcium cobaltite thick films for transversal thermoelectric multilayer generators. Journal of the European Ceramic Society, 2018, 38, 1600-1607.	5.7	18
61	Phase formation, magnetic properties, and phase stability in reducing atmosphere of M-type strontium hexaferrite nanoparticles synthesized via a modified citrate process. Journal of Materials Science, 2019, 54, 1136-1146.	3.7	18
62	Low-Temperature Firing of Substituted M-Type Hexagonal Ferrites for Multilayer Inductors. IEEE Transactions on Magnetics, 2012, 48, 1556-1559.	2.1	17
63	Thermoelectric properties of Gd/W double substituted calcium manganite. Journal of Alloys and Compounds, 2017, 699, 788-795.	5.5	17
64	Phase formation and magnetic properties of CoFe2O4/CoFe2 nanocomposites. Materials Chemistry and Physics, 2019, 227, 83-89.	4.0	15
65	Synthesis and properties of lead-free BNT-BT-xCZ ceramics as high-temperature dielectrics. Materials Research Bulletin, 2022, 145, 111560.	5.2	15
66	Integration of additive-free Niâ€“Cuâ€“Zn ferrite layers into LTCC multilayer modules. Journal of the European Ceramic Society, 2016, 36, 1931-1937.	5.7	14
67	Effect of Carbon Nanotubes on Thermoelectric Properties in Zn0.98Al0.02O. Journal of Electronic Materials, 2016, 45, 1459-1463.	2.2	14
68	Preparation, thermal stability and permeability behavior of substituted Z-type hexagonal ferrites for multilayer inductors. Journal of Electroceramics, 2009, 22, 227-232.	2.0	13
69	A Monolithic Oxide-Based Transversal Thermoelectric Energy Harvester. Journal of Electronic Materials, 2016, 45, 1966-1969.	2.2	13
70	LTCC-Modules with Integrated Ferrite Layersâ€”Strategies for Material Development and Co-Sintering. Journal of Microelectronics and Electronic Packaging, 2009, 6, 49-53.	0.7	13
71	Lowâ€Temperature Sintered <scp>NTC</scp> Thermistor Ceramics for Thickâ€Film Temperature Sensors. International Journal of Applied Ceramic Technology, 2013, 10, 428-434.	2.1	12
72	Preparation and physical properties of CuAl1â^’xMnxO2 (0â‰¤xâ‰¤0.2) delafossites. Solid State Sciences, 2007, 9, 236-239.	3.2	11

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73	Fabrication of a transversal multilayer thermoelectric generator with substituted calcium manganite. Journal of the American Ceramic Society, 2017, 100, 5700-5708.	3.8	11
74	Low pO2 sintering and reoxidation of lead-free KNNLT piezoceramic laminates. Journal of the European Ceramic Society, 2021, 41, 344-351.	5.7	11
75	Permanent magnetic thick films from remanence optimized NdFeB-inks. Journal of Materials Science: Materials in Electronics, 2004, 15, 165-168.	2.2	10
76	Multi-pole magnetization of NdFeB magnets for magnetic micro-actuators and its characterization with a magnetic field mapping device. Journal of Magnetism and Magnetic Materials, 2004, 270, 124-129.	2.3	10
77	Point defects and deviation from stoichiometry in (Znxâˆ’y/4Mn1âˆ’xâˆ’3y/4Fe2+y)1âˆ’Î´/3O4. Journal of the European Ceramic Society, 2004, 24, 603-612.	5.7	10
78	Mixed-metal carbonates as precursors for the synthesis of nanocrystalline Mnâ€“Zn ferrites. Journal of Magnetism and Magnetic Materials, 2010, 322, 3455-3459.	2.3	10
79	Integration of Highâ€Frequency Mâ€Type Hexagonal Ferrite Inductors in <scp>LTCC</scp> Multilayer Modules. International Journal of Applied Ceramic Technology, 2016, 13, 540-548.	2.1	10
80	Electron spin resonance (ESR) of magnetic sublattices in Sc-substituted barium hexaferrite. AIP Advances, 2016, 6, .	1.3	10
81	Phase formation and saturation magnetization of La-Zn-substituted M-type strontium ferrites. Journal of Magnetism and Magnetic Materials, 2020, 508, 166887.	2.3	10
82	Investigations on electronically conducting oxide systems XXV. Electrical and crystallographic studies of the system LizCu1âˆ’zMn2O4. Journal of Alloys and Compounds, 1993, 202, 231-235.	5.5	9
83	Synthesis, doping and electrical bulk response of (Bi1/2Na1/2)xBa1-xTiO3Â+ CaO â€“based ceramics with positive temperature coefficient of resistivity (PTCR). Journal of Alloys and Compounds, 2018, 762, 209-215.	5.5	9
84	Synthesis and magnetic properties of hard/soft SrAl2Fe10O19/Fe(FeCo2) nanocomposites. Journal of Magnetism and Magnetic Materials, 2019, 480, 40-46.	2.3	9
85	Cation distribution in NiMn2O4 spinel probed by high temperature thermopower measurements. Journal of Alloys and Compounds, 2021, 865, 158909.	5.5	9
86	Effect of SiO 2 sintering additive on the positive temperature coefficient of resistivity (PTCR) behavior of (Bi 1/2 Na 1/2) 0.10 Ba 0.90 TiO 3 + CaO ceramics. Materials Research Bulletin, 2017, 89, 217-223.	5.2	8
87	Phase stability and magnetic properties of SrFe₁₈O₂₇ Wâ€type hexagonal ferrite. Journal of the American Ceramic Society, 2020, 103, 324-334.	3.8	8
88	Cofiring of LTCC multilayer assemblies with integrated NTC thermistor temperature sensor layers. Ceramics International, 2021, 47, 27849-27853.	4.8	8
89	Deviation from stoichiometry and point defects in (ZnxMn1$minus;xFe2)1$minus;$delta;/3O4. Solid State Ionics, 2003, 159, 397-404.	2.7	7
90	Phase Formation, Sintering Behavior, and Magnetic Properties of Lowâ€Temperature Fired Mgâ€“Cuâ€“Zn Ferrites. Journal of the American Ceramic Society, 2012, 95, 3883-3888.	3.8	7

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91	Oxide multilayer thermoelectric generators. International Journal of Applied Ceramic Technology, 2018, 15, 716-722.	2.1	7
92	Variation of the oxygen content and point defects in tephroite, Mn2SiO4+Î´. Solid State Ionics, 2010, 181, 479-488.	2.7	6
93	Ga-, Y-, and Sc-substituted M-type ferrites for self-biasing circulators in LTCC microwave modules. AIP Advances, 2020, 10, 025315.	1.3	6
94	Effect of oxygen partial pressure on co-firing behavior and magnetic properties of LTCC modules with integrated NiCuZn ferrite layers. Journal of Electroceramics, 2016, 37, 100-109.	2.0	5
95	Niâ€Cuâ€Zn ferrites with high Curie temperature for multilayer inductors with increased operating temperatures. International Journal of Applied Ceramic Technology, 2021, 18, 129-137.	2.1	5
96	Low-temperature sintered Niâ€"Znâ€"Coâ€"Mnâ€"O spinel oxide ceramics for multilayer NTC thermistors. Journal of Materials Science: Materials in Electronics, 2021, 32, 10761-10768.	2.2	5
97	Hexavalent (<i>Me</i> â€•W/Mo)â€modified (Ba,Ca)TiO₃â€Bi(Mg,<i>Me</i>)O₃ perovskites for highâ€temperature dielectrics. Journal of the American Ceramic Society, 2020, 103, 6881-6892.	3.8	4
98	Transversal Oxide-Metal Thermoelectric Device for Low-Power Energy Harvesting. Energy Harvesting and Systems, 2015, 2, 25-35.	2.7	3
99	Transverse thermoelectric multilayer generator with bismuth-substituted calcium cobaltite: Design optimization through variation of tilt angle. Journal of the European Ceramic Society, 2019, 39, 2923-2929.	5.7	3
100	Multilayer ferrite inductors for the use at high temperatures. Microelectronics International, 2020, 37, 73-78.	0.6	3
101	Structure, properties and cation distribution of spinels of the series FezNi1âˆ’zMn2O4 (0â©½z â©½ 2/3). Journal of Alloys and Compounds, 1994, 215, 97-103.	5.5	2
102	Integration of Ni-Cu-Zn and Hexagonal Ferrites into LTCC Modules: Cofiring Strategies and Magnetic Properties. Funtai Oyobi Fummatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2014, 61, S214-S217.	0.2	1
103	Low-temperature sintering of BaTiO3 positive temperature coefficient of resistivity (PTCR) ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 17881-17886.	2.2	1
104	Phase Formation, Microstructure and Permeability of Fe-Deficient Ni-Cu-Zn Ferrites, (I): Effect of Sintering Temperature. Magnetochemistry, 2021, 7, 118.	2.4	1
105	A Design Approach for an Integrated Self-Biased Ka-Band Isolator. , 2021, , .		1
106	Large Thermal Expansion LTCC System for Cofiring with Integrated Functional Ceramics Layers. Materials, 2022, 15, 564.	2.9	1
107	Preparation, thermal stability and permeability behaviour of Z-type hexagonal ferrites for multilayer inductors. International Journal of Materials and Product Technology, 2011, 40, 15.	0.2	0
108	Integration Concept for a Self-Biased Ka-Band Circulator. , 2020, , .		0

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109	Tuning of high-temperature dielectric properties in the system (Bi0.5Na0.5)TiO3â€"BaTiO3â€"CaZrO3. Ceramics International, 2022, , .	4.8	0