JÃ¶rg TÃ¶pfer

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4321604/publications.pdf

Version: 2024-02-01

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	Synthesis and properties of lead-free BNT-BT-xCZ ceramics as high-temperature dielectrics. Materials Research Bulletin, 2022, 145, 111560.	5.2	15
2	Large Thermal Expansion LTCC System for Cofiring with Integrated Functional Ceramics Layers. Materials, 2022, 15, 564.	2.9	1
3	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
4	Tuning of high-temperature dielectric properties in the system (Bi0.5Na0.5)TiO3â€“BaTiO3â€“CaZrO3. Ceramics International, 2022, , .	4.8	0
5	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
6	Low pO2 sintering and reoxidation of lead-free KNNLT piezoceramic laminates. Journal of the European Ceramic Society, 2021, 41, 344-351.	5.7	11
7	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
8	Cation distribution in NiMn2O4 spinel probed by high temperature thermopower measurements. Journal of Alloys and Compounds, 2021, 865, 158909.	5.5	9
9	Phase Formation, Microstructure and Permeability of Fe-Deficient Ni-Cu-Zn Ferrites, (I): Effect of Sintering Temperature. Magnetochemistry, 2021, 7, 118.	2.4	1
10	Cofiring of LTCC multilayer assemblies with integrated NTC thermistor temperature sensor layers. Ceramics International, 2021, 47, 27849-27853.	4.8	8
11	A Design Approach for an Integrated Self-Biased Ka-Band Isolator. , 2021, , .		1
12	Phase stability and magnetic properties of SrFe₁₈O₂₇ Wâ€type hexagonal ferrite. Journal of the American Ceramic Society, 2020, 103, 324-334.	3.8	8
13	Hexavalent (Me â€•W/Mo)â€modified (Ba,Ca)TiO₃â€Bi(Mg,Me)O₃ perovskites for highâ€temperature dielectrics. Journal of the American Ceramic Society, 2020, 103, 6881-6892.	3.8	4
14	Multilayer ferrite inductors for the use at high temperatures. Microelectronics International, 2020, 37, 73-78.	0.6	3
15	Ga-, Y-, and Sc-substituted M-type ferrites for self-biasing circulators in LTCC microwave modules. AIP Advances, 2020, 10, 025315.	1.3	6
16	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
17	Integration Concept for a Self-Biased Ka-Band Circulator. , 2020, , .		0
18	Phase formation and magnetic properties of CoFe2O4/CoFe2 nanocomposites. Materials Chemistry and Physics, 2019, 227, 83-89.	4.0	15

#	Article	IF	Citations
19	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
20	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
21	Synthesis and magnetic properties of hard/soft SrAl2Fe10O19/Fe(FeCo2) nanocomposites. Journal of Magnetism and Magnetic Materials, 2019, 480, 40-46.	2.3	9
22	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
23	Oxide multilayer thermoelectric generators. International Journal of Applied Ceramic Technology, 2018, 15, 716-722.	2.1	7
24	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
25	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
26	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
27	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
28	Thermoelectric properties of Gd/W double substituted calcium manganite. Journal of Alloys and Compounds, 2017, 699, 788-795.	5.5	17
29	Fabrication of a transversal multilayer thermoelectric generator with substituted calcium manganite. Journal of the American Ceramic Society, 2017, 100, 5700-5708.	3.8	11
30	Evaluation of soft chemistry methods to synthesize Gd-doped CaMnO3â˜Î´ with improved thermoelectric properties. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 223, 185-193.	3.5	24
31	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
32	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
33	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
34	Electron spin resonance (ESR) of magnetic sublattices in Sc-substituted barium hexaferrite. AIP Advances, 2016, 6, .	1.3	10
35	A Monolithic Oxide-Based Transversal Thermoelectric Energy Harvester. Journal of Electronic Materials, 2016, 45, 1966-1969.	2.2	13
36	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

#	Article	IF	Citations
37	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
38	Effect of Carbon Nanotubes on Thermoelectric Properties in Zn0.98Al0.02O. Journal of Electronic Materials, 2016, 45, 1459-1463.	2.2	14
39	Charge localization and magnetocrystalline anisotropy in La, Pr, and Nd substituted Sr hexaferrites. Physical Review B, 2015, 92, .	3.2	21
40	Transversal Oxide-Metal Thermoelectric Device for Low-Power Energy Harvesting. Energy Harvesting and Systems, 2015, 2, 25-35.	2.7	3
41	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
42	Microstructure and Electric Properties of CaCu₃Ti₄O₁₂ Multilayer Capacitors. Journal of the American Ceramic Society, 2015, 98, 141-147.	3.8	61
43	Effect of sintering conditions on microstructure and dielectric properties of CaCu3Ti4O12 (CCTO) ceramics. Journal of Electroceramics, 2015, 34, 241-248.	2.0	44
44	A MÃ¶ssbauer investigation of Sr1âˆ’xLaxFe12O19 (0â‰¤xâ‰¤1) M-type hexaferrites. Physica B: Condensed Matter, 2015, 470-471, 33-38.	2.7	21
45	Complex additive systems for Mn-Zn ferrites with low power loss. Journal of Applied Physics, 2015, 117, .	2.5	23
46	Integration of CaCu3Ti4O12 capacitors into LTCC multilayer modules. Journal of the European Ceramic Society, 2015, 35, 3043-3049.	5.7	23
47	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
48	Chemical and structural effects on the high-temperature mechanical behavior of (1âˆ’x)(Na1/2Bi1/2)TiO3-xBaTiO3 ceramics. Journal of Applied Physics, 2015, 117, .	2.5	27
49	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
50	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
51	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
52	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
53	Nonstoichiometry, point defects and magnetic properties in Sr2FeMoO6âˆ’Î´ double perovskites. Journal of Solid State Chemistry, 2012, 185, 76-81.	2.9	44
54	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

#	Article	IF	Citations
55	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
56	Zn- and Cu-substituted Co2Y hexagonal ferrites: Sintering behavior and permeability. Journal of Magnetism and Magnetic Materials, 2012, 324, 1804-1808.	2.3	29
57	Low-Temperature Firing of Substituted M-Type Hexagonal Ferrites for Multilayer Inductors. IEEE Transactions on Magnetics, 2012, 48, 1556-1559.	2.1	17
58	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
59	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
60	Rareâ€Earthâ€Substituted Sr_{1â^'x}Ln_xFe₁₂O₁₉ Hexagonal Ferrites. Journal of the American Ceramic Society, 2011, 94, 2109-2118.	3.8	42
61	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
62	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
63	Synthesis of nanocrystalline Mnâ€“Zn ferrite powders through thermolysis of mixed oxalates. Ceramics International, 2011, 37, 995-1002.	4.8	46
64	Structural properties of (Bi0.5Na0.5)1â^'xBaxTiO3 lead-free piezoelectric ceramics. Journal of the European Ceramic Society, 2010, 30, 3445-3453.	5.7	90
65	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
66	Oxygen stoichiometry and expansion behavior of Ba0.5Sr0.5Co0.8Fe0.2O3â^'Î´. Solid State Ionics, 2010, 181, 64-70.	2.7	85
67	Variation of the oxygen content and point defects in tephroite, Mn2SiO4+Î´. Solid State Ionics, 2010, 181, 479-488.	2.7	6
68	Nanocrystalline Mnâ€“Zn ferrites from mixed oxalates: Synthesis, stability and magnetic properties. Journal of Alloys and Compounds, 2010, 508, 433-439.	5.5	34
69	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
70	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
71	Synthesis and magnetic properties of La-substituted M-type Sr hexaferrites. Journal of Magnetism and Magnetic Materials, 2009, 321, 4045-4051.	2.3	98
72	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

#	Article	IF	Citations
73	Synthesis of magnetite nanoparticles by thermal decomposition of ferrous oxalate dihydrate. Journal of Materials Science, 2008, 43, 5123-5130.	3.7	102
74	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
75	Synthesis and physical characterization of magnetite nanoparticles for biomedical applications. Materials Chemistry and Physics, 2008, 110, 426-433.	4.0	198
76	Highly sinter-active (Mgâ€“Cu)â€“Zn ferrite nanoparticles prepared by flame spray synthesis. Acta Materialia, 2007, 55, 1955-1964.	7.9	34
77	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
78	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
79	Mg?Cu?Zn Ferrites for Multilayer Inductors. International Journal of Applied Ceramic Technology, 2007, 4, 415-422.	2.1	18
80	Preparation and physical properties of CuAl1â^'xMnxO2 (0â‰¤xâ‰¤0.2) delafossites. Solid State Sciences, 2007, 9, 236-239.	3.2	11
81	Magnetic Nanoparticles for Biomedical Heating Applications. Zeitschrift Fur Physikalische Chemie, 2006, 220, 145-151.	2.8	29
82	Soft Ferrite Materials for Multilayer Inductors. International Journal of Applied Ceramic Technology, 2006, 3, 455-462.	2.1	34
83	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
84	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
85	Microstructural effects in low loss power ferrites. Journal of the European Ceramic Society, 2005, 25, 3045-3049.	5.7	24
86	Preparation and physical properties of the solid solutions Cu1+xMn1â^'xO2 (). Journal of Solid State Chemistry, 2005, 178, 2751-2758.	2.9	46
87	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
88	Structure, nonstoichiometry and magnetic properties of the perovskites Sr1â^'xCaxMnO3â^'Î´. Solid State Sciences, 2004, 6, 647-654.	3.2	26
89	Permanent magnetic thick films from remanence optimized NdFeB-inks. Journal of Materials Science: Materials in Electronics, 2004, 15, 165-168.	2.2	10
90	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

#	Article	IF	Citations
91	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
92	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
93	NdFeB thick films prepared by tape casting. Journal of Magnetism and Magnetic Materials, 2003, 265, 337-344.	2.3	39
94	Deviation from stoichiometry and point defects in (ZnxMn1$minus;xFe2)1$minus;$delta;/3O4. Solid State Ionics, 2003, 159, 397-404.	2.7	7
95	Transport and Magnetic Properties of the Perovskites La1-yMnO3and LaMn1-zO3. Chemistry of Materials, 1997, 9, 1467-1474.	6.7	146
96	LaMnO3+Î´Revisited. Journal of Solid State Chemistry, 1997, 130, 117-128.	2.9	418
97	Investigations on the charge transport in LaMnO3 +Î´at low temperatures. Journal of Materials Chemistry, 1996, 6, 1511-1516.	6.7	20
98	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
99	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
100	Room Temperature Chemical Oxidation of Delafossite-Type Oxides. Journal of Solid State Chemistry, 1994, 111, 104-110.	2.9	30
101	Thermopower analysis of substituted nickel manganite spinels. Materials Research Bulletin, 1994, 29, 225-232.	5.2	23
102	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
103	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
104	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
105	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
106	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
107	Thermal decomposition of mixed crystals NixMn3âˆ’x(C2O4)3Â· 6H2O. Thermochimica Acta, 1992, 202, 281-289.	2.7	18
108	Conductivity data and preparation routes for NiMn2O4 thermistor ceramics. Journal of the European Ceramic Society, 1992, 9, 187-191.	5.7	57

#	Article	IF	Citations
109	Microstructure and phase development in NiMn2O4 spinel ceramics during isothermal sintering. Journal of the European Ceramic Society, 1990, 6, 351-359.	5.7	44