

UÄur Topal

List of Publications by Year in descending order

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73
papers

903
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567281

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75
all docs

75
docs citations

75
times ranked

938
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimization of the Temperature Stability of Fluxgate Sensors for Space Applications. IEEE Sensors Journal, 2021, 21, 2749-2756.	4.7	5
2	Design of Fluxgate Sensors for Different Applications from Geology to Medicine. Journal of Superconductivity and Novel Magnetism, 2019, 32, 839-844.	1.8	15
3	Optimizing the sensing properties of race-track fluxgates as a function of core layers. AIP Conference Proceedings, 2019, , .	0.4	0
4	Design of a DC current sensor based on fluxgate principle. AIP Conference Proceedings, 2019, , .	0.4	0
5	Surface and structural characterization of amorphous Fe,Co-based melt-spun ribbons subjected to heat treatment processes. Journal of Non-Crystalline Solids, 2019, 522, 119592.	3.1	13
6	The Role of Wheel Surface Quality on Structural and Hard Magnetic Properties of Nd-Fe-B Permanent Magnet Powders. Journal of Superconductivity and Novel Magnetism, 2018, 31, 3025-3041.	1.8	6
7	The Sensing Characteristics of Ring-Core Fluxgate Sensors at Temperature Interval of ~ 50 $^{\circ}\text{C}$ to $+85$ $^{\circ}\text{C}$. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	8
8	Body mass index and complications following major gastrointestinal surgery: a prospective, international cohort study and meta-analysis. Colorectal Disease, 2018, 20, O215-O225.	1.4	46
9	Systematic optimization of the sensing properties of ring-core fluxgate sensors with different core diameters and materials. Sensors and Actuators A: Physical, 2017, 255, 94-103.	4.1	13
10	Magnetic and Low DC Field Sensing Analysis of Cobalt-Doped YBCO Superconductors as the Core of Fluxgate-Type Sensors. Journal of Superconductivity and Novel Magnetism, 2017, 30, 2329-2333.	1.8	0
11	Pb substituted Ba,Sr-hexaferrite nanoparticles as high quality microwave absorbers. Ceramics International, 2017, 43, 14023-14030.	4.8	36
12	A Comparative Study for Optimization of Sensitivity and Noise Levels in Race-Track Sensors. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3555-3557.	1.8	2
13	Enhanced Magnetic Properties of Nd ₁₅ Fe ₇₇ B ₈ Alloy Powders Produced by Melt-Spinning Technique. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5017-5030.	2.2	3
14	Fabrication of Fluxgate Sensor Heads by Milling with a Circuit Board Plotter and Influence of Core Annealing Conditions on Sensor Performance. Journal of Superconductivity and Novel Magnetism, 2017, 30, 3257-3261.	1.8	2
15	Microwave, dielectric and magnetic properties of Mg-Ti substituted Ni-Zn ferrite nanoparticles. Ceramics International, 2016, 42, 17317-17331.	4.8	31
16	Phase stabilization of magnetite (Fe ₃ O ₄) nanoparticles with B ₂ O ₃ addition: A significant enhancement on the phase transition temperature. Journal of Magnetism and Magnetic Materials, 2016, 406, 123-128.	2.3	15
17	Microwave properties of BaFe ₁₁ Mg _{2+0.25} X _{2+0.25} Ti _{4+0.25} O ₁₉ (X ₂₊ =Cu, Mn, Zn, Ni and Co) nanoparticles in 0-26.5GHz range. Ceramics International, 2016, 42, 2611-2625.	4.8	21
18	Optimizing the sensing performance of a single-rod fluxgate magnetometer using thin magnetic wires. Measurement Science and Technology, 2015, 26, 115102.	2.6	11

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19	Design of Ring Core Fluxgate Magnetometer as Attitude Control Sensor for Low and High Orbit Satellites. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1093-1096.	1.8	14
20	A Novel Design of Fluxgate Magnetometer: An Insect like Configuration. Journal of Superconductivity and Novel Magnetism, 2015, 28, 711-714.	1.8	2
21	Mechanical Characterization of Ruthenocuprates by Nanoindentation Technique. Journal of Superconductivity and Novel Magnetism, 2015, 28, 519-523.	1.8	0
22	The Role of Weak Links and Zn-Doping on Magnetic Parameters of High-T _c Superconductors. Journal of Superconductivity and Novel Magnetism, 2014, 27, 133-141.	1.8	1
23	Design and performance analysis of three superconducting magnetic sensors for the measurement of small fields. Measurement Science and Technology, 2013, 24, 105110.	2.6	4
24	Measuring DC Fields as Low as 0.5 nT by Using Bi-2223 Polycrystalline Superconductors. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1831-1835.	1.8	1
25	Magnetometer Design for Measuring Ultralow DC Magnetic Fields Using YBa ₂ Cu ₃ O _{7-x} Superconductors. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1155-1158.	1.8	0
26	Improving the Sensitivity of Superconductor-Based DC Magnetometer. Journal of Superconductivity and Novel Magnetism, 2012, 25, 2539-2545.	1.8	5
27	Measurements of ultra-low DC fields by high- T _c superconducting cores: The effect of calcination temperature. Journal of Alloys and Compounds, 2012, 530, 91-96.	5.5	5
28	The 2nd harmonic signal analysis in Ca-doped Y-123 superconductors: Sensing DC-fields down to 0.5nT. Sensors and Actuators A: Physical, 2012, 183, 43-49.	4.1	1
29	Effect of boron doping in the microwave surface resistance of neutron irradiated melt-textured Y _{1.6} Ba _{2.3} Cu _{3.3} O _{7-x} samples. Physica C: Superconductivity and Its Applications, 2012, 483, 71-78.	1.2	2
30	Ultra-low DC Magnetic Field Detection Using Ceramic Superconductors. Journal of Superconductivity and Novel Magnetism, 2012, 25, 931-934.	1.8	8
31	The Role of Oxygenation on Superconducting Properties of RE ₃ Ba ₅ Cu ₈ O ₁₈ (RE=Y, Sm and Nd) Compounds. Journal of Superconductivity and Novel Magnetism, 2012, 25, 239-244.	1.8	12
32	Magnetic Properties of Sm _{1-x} Tb _x Ni ₄ B compounds. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1065-1070.	1.8	1
33	Towards Further Improvements of the Magnetization Parameters of B ₂ O ₃ -Doped BaFe ₁₂ O ₁₉ Particles: Etching with Hydrochloric Acid. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1485-1488.	1.8	8
34	Improvement of the remanence properties and the weakening of interparticle interactions in BaFe ₁₂ O ₁₉ particles by B ₂ O ₃ addition. Physica B: Condensed Matter, 2012, 407, 2058-2062.	2.7	2
35	A simple synthesis route for high quality BaFe ₁₂ O ₁₉ magnets. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1531-1536.	3.5	11
36	Co-existence of diamagnetism and ferromagnetism and possible superconductivity in Y ₈ Ba ₅ Zn ₄ O ₂₁ . Materials Characterization, 2011, 62, 218-222.	4.4	1

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37	Coexistence of Ferromagnetism and Diamagnetism in Y-Ba-Zn-O compound. Journal of Superconductivity and Novel Magnetism, 2011, 24, 957-959.	1.8	1
38	Improvement of Magnetic and Structural Properties of Some Ferric Compounds with Boron Addition. Journal of Superconductivity and Novel Magnetism, 2011, 24, 727-729.	1.8	0
39	Further Increase of T _c in Y-Ba-Cu-O Superconductors. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1815-1820.	1.8	9
40	Electrical and Structural Properties of RE ₃ Ba ₅ Cu ₈ O ₁₈ (RE=Y, Sm and Nd) Superconductors. Journal of Superconductivity and Novel Magnetism, 2011, 24, 2099-2102.	1.8	26
41	Improvement of the magnetic properties of highly porous open-celled magnets. Journal of the European Ceramic Society, 2011, 31, 783-787.	5.7	3
42	Effects of grain boundaries on electrical and magnetic properties of melt-processed SmBa ₂ Cu ₃ O _x superconductors. Materials Chemistry and Physics, 2010, 119, 182-187.	4.0	14
43	Permanently magnetic BaFe ₁₂ O ₁₉ foams: Synthesis and characterization. Materials Chemistry and Physics, 2010, 123, 121-124.	4.0	17
44	Magnetic properties and remanence analysis in permanently magnetic BaFe ₁₂ O ₁₉ foams. Journal of the European Ceramic Society, 2010, 30, 3167-3171.	5.7	27
45	Unexpected transport and magnetic properties in YBaCuO superconductors. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1196-1203.	1.8	6
46	A Universal Method for the Preparation of Magnetic and Luminescent Hybrid Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 7758-7766.	3.1	40
47	Evolution of Structural and Magnetic Properties of BaFe ₁₂ O ₁₉ with B ₂ O ₃ Addition. Chinese Physics Letters, 2010, 27, 117503.	3.3	11
48	Analysis of the magneto-transport properties of superconducting/ferromagnetic YBa ₂ Cu ₃ O ₇ /La _{0.7} Sr _{0.3} MnO ₃ bilayer thin films. Journal of Alloys and Compounds, 2010, 492, 8-12.	5.5	21
49	Structural and superconducting properties of YBaCuO superconductors at different atomic compositions. Journal of Alloys and Compounds, 2010, 503, 1-5.	5.5	33
50	A typical invasive ductal carcinoma: Two cases. European Journal of Radiology Extra, 2009, 71, e19-e22.	0.1	0
51	Chemical Shift MRI: Is There any Contribution to Morphologic Evaluation of Solid Breast Masses?. Academic Radiology, 2009, 16, 1263-1271.	2.5	2
52	Ammonium nitrate melt technique for the synthesis of oxide compounds. Journal of Physics: Conference Series, 2009, 153, 012031.	0.4	2
53	The role of Doppler sonography in predicting severity of acute pancreatitis. Journal of Clinical Ultrasound, 2008, 36, 141-147.	0.8	4
54	Factors influencing the remanent properties of hard magnetic barium ferrites: Impurity phases and grain sizes. Journal of Magnetism and Magnetic Materials, 2008, 320, 331-335.	2.3	31

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55	Evolution of magnetic and structural properties of TiO ₂ with Co-doping. Journal of Non-Crystalline Solids, 2008, 354, 1678-1682.	3.1	3
56	Finding optimal Fe/Ba ratio to obtain single phase BaFe ₁₂ O ₁₉ prepared by ammonium nitrate melt technique. Journal of Alloys and Compounds, 2007, 428, 17-21.	5.5	50
57	Phase formation and magnetic anomalies in RuSr ₂ RECu ₂ O ₈ (RE=Eu, Gd, Ho) samples. Journal of Physics and Chemistry of Solids, 2007, 68, 1969-1972.	4.0	3
58	MR imaging in probably benign lesions (BI-RADS category 3) of the breast. European Journal of Radiology, 2006, 57, 436-444.	2.6	28
59	Apocrine carcinoma of the breast: Mammography and ultrasound findings. European Journal of Radiology Extra, 2006, 60, 55-59.	0.1	7
60	Improved properties of BaFe ₁₂ O ₁₉ prepared by ammonium nitrate melt technique and washed in HCl. Journal of Alloys and Compounds, 2006, 422, 276-278.	5.5	29
61	Measurement of fluctuation-induced diamagnetism in BSCCO-2212 single crystals using magneto-optics. Physica C: Superconductivity and Its Applications, 2006, 434, 95-100.	1.2	5
62	Effects of B ₂ O ₃ addition on the properties of melt-processed YBa ₂ Cu ₃ O _{7-δ} . Superconductor Science and Technology, 2005, 18, 82-86.	3.5	13
63	Role of ultrasound-guided core needle biopsy of axillary lymph nodes in the initial staging of breast carcinoma. European Journal of Radiology, 2005, 56, 382-385.	2.6	60
64	Synthesis and characterization of nanocrystalline BaFe ₁₂ O ₁₉ obtained at 850 $\hat{\text{A}}$ °C by using ammonium nitrate melt. Journal of Magnetism and Magnetic Materials, 2004, 284, 416-422.	2.3	80
65	Paramagnetic Meissner effect in MgB ₂ . Physica C: Superconductivity and Its Applications, 2004, 408-410, 109-110.	1.2	15
66	Effect of interaction between irradiation-induced defects and intrinsic defects in the pinning improvement of neutron irradiated YBaCuO sample. Physica C: Superconductivity and Its Applications, 2004, 408-410, 636-637.	1.2	5
67	Effect of neutron irradiation on pinning in SmBaCuO and YBaCuO superconductors. Physica C: Superconductivity and Its Applications, 2004, 407, 49-54.	1.2	9
68	Synthesis of ruthenium-based layered cuprates in ammonium nitrate melt and their characterisation. Physica C: Superconductivity and Its Applications, 2003, 387, 359-364.	1.2	13
69	Effect of thermal neutron irradiation in boron-doped melt-textured YBCO superconductors. Physica C: Superconductivity and Its Applications, 2003, 388-389, 401-402.	1.2	11
70	Effect of thermal neutron irradiation on the pinning properties of TSMG Sm-123 superconductor. Physica C: Superconductivity and Its Applications, 2003, 388-389, 403-404.	1.2	3
71	Desmoid tumor of the chest wall. European Journal of Radiology Extra, 2003, 46, 119-121.	0.1	3
72	Magnetic field penetration in YBa ₂ Cu ₃ O _{7-δ} single crystals under conditions of a reduced surface barrier. Superconductor Science and Technology, 2001, 14, 839-843.	3.5	6

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73	Voltage-current characteristics of the thallium-based ceramic superconductors. Superconductor Science and Technology, 1999, 12, 592-596.	3.5	8