

# UÄur Topal

## List of Publications by Year in descending order

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73  
papers

903  
citations

567281

15  
h-index

526287

27  
g-index

75  
all docs

75  
docs citations

75  
times ranked

938  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of nanocrystalline BaFe <sub>12</sub> O <sub>19</sub> obtained at 850Å°C by using ammonium nitrate melt. Journal of Magnetism and Magnetic Materials, 2004, 284, 416-422.	2.3	80
2	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
3	Finding optimal Fe/Ba ratio to obtain single phase BaFe <sub>12</sub> O <sub>19</sub> prepared by ammonium nitrate melt technique. Journal of Alloys and Compounds, 2007, 428, 17-21.	5.5	50
4	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
5	A Universal Method for the Preparation of Magnetic and Luminescent Hybrid Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 7758-7766.	3.1	40
6	Pb substituted Ba,Sr-hexaferrite nanoparticles as high quality microwave absorbers. Ceramics International, 2017, 43, 14023-14030.	4.8	36
7	Structural and superconducting properties of YBaCuO superconductors at different atomic compositions. Journal of Alloys and Compounds, 2010, 503, 1-5.	5.5	33
8	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
9	Microwave, dielectric and magnetic properties of Mg-Ti substituted Ni-Zn ferrite nanoparticles. Ceramics International, 2016, 42, 17317-17331.	4.8	31
10	Improved properties of BaFe <sub>12</sub> O <sub>19</sub> prepared by ammonium nitrate melt technique and washed in HCl. Journal of Alloys and Compounds, 2006, 422, 276-278.	5.5	29
11	MR imaging in probably benign lesions (BI-RADS category 3) of the breast. European Journal of Radiology, 2006, 57, 436-444.	2.6	28
12	Magnetic properties and remanence analysis in permanently magnetic BaFe <sub>12</sub> O <sub>19</sub> foams. Journal of the European Ceramic Society, 2010, 30, 3167-3171.	5.7	27
13	Electrical and Structural Properties of RE <sub>3</sub> Ba <sub>5</sub> Cu <sub>8</sub> O <sub>18</sub> (RE=Y, Sm and Nd) Superconductors. Journal of Superconductivity and Novel Magnetism, 2011, 24, 2099-2102.	1.8	26
14	Analysis of the magneto-transport properties of superconducting/ferromagnetic YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> bilayer thin films. Journal of Alloys and Compounds, 2010, 492, 8-12.	5.5	21
15	Microwave properties of BaFe <sub>11</sub> Mg <sub>2+0.25</sub> X <sub>2+0.25</sub> Ti <sub>4+0.25</sub> O <sub>19</sub> (X <sub>2</sub> + = Cu, Mn, Zn, Ni and Co) nanoparticles in 0Å€26.5GHz range. Ceramics International, 2016, 42, 2611-2625.	4.8	21
16	Permanently magnetic BaFe <sub>12</sub> O <sub>19</sub> foams: Synthesis and characterization. Materials Chemistry and Physics, 2010, 123, 121-124.	4.0	17
17	Paramagnetic Meissner effect in MgB <sub>2</sub> . Physica C: Superconductivity and Its Applications, 2004, 408-410, 109-110.	1.2	15
18	Phase stabilization of magnetite (Fe <sub>3</sub> O <sub>4</sub> ) nanoparticles with B <sub>2</sub> O <sub>3</sub> addition: A significant enhancement on the phase transition temperature. Journal of Magnetism and Magnetic Materials, 2016, 406, 123-128.	2.3	15

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19	Design of Fluxgate Sensors for Different Applications from Geology to Medicine. Journal of Superconductivity and Novel Magnetism, 2019, 32, 839-844.	1.8	15
20	Effects of grain boundaries on electrical and magnetic properties of melt-processed SmBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> superconductors. Materials Chemistry and Physics, 2010, 119, 182-187.	4.0	14
21	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
22	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
23	Effects of B <sub>2</sub> O <sub>3</sub> addition on the properties of melt-processed YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Superconductor Science and Technology, 2005, 18, 82-86.	3.5	13
24	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
25	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
26	The Role of Oxygenation on Superconducting Properties of RE <sub>3</sub> Ba <sub>5</sub> Cu <sub>8</sub> O <sub>18</sub> (RE=Y, Sm and Nd) Compounds. Journal of Superconductivity and Novel Magnetism, 2012, 25, 239-244.	1.8	12
27	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
28	Evolution of Structural and Magnetic Properties of BaFe <sub>12</sub> O <sub>19</sub> with B <sub>2</sub> O <sub>3</sub> Addition. Chinese Physics Letters, 2010, 27, 117503.	3.3	11
29	A simple synthesis route for high quality BaFe <sub>12</sub> O <sub>19</sub> magnets. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1531-1536.	3.5	11
30	Optimizing the sensing performance of a single-rod fluxgate magnetometer using thin magnetic wires. Measurement Science and Technology, 2015, 26, 115102.	2.6	11
31	Effect of neutron irradiation on pinning in SmBaCuO and YBaCuO superconductors. Physica C: Superconductivity and Its Applications, 2004, 407, 49-54.	1.2	9
32	Further Increase of T <sub>c</sub> in Y-Ba-Cu-O Superconductors. Journal of Superconductivity and Novel Magnetism, 2011, 24, 1815-1820.	1.8	9
33	Voltage-current characteristics of the thallium-based ceramic superconductors. Superconductor Science and Technology, 1999, 12, 592-596.	3.5	8
34	Ultra-low DC Magnetic Field Detection Using Ceramic Superconductors. Journal of Superconductivity and Novel Magnetism, 2012, 25, 931-934.	1.8	8
35	Towards Further Improvements of the Magnetization Parameters of B <sub>2</sub> O <sub>3</sub> -Doped BaFe <sub>12</sub> O <sub>19</sub> Particles: Etching with Hydrochloric Acid. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1485-1488.	1.8	8
36	The Sensing Characteristics of Ring-Core Fluxgate Sensors at Temperature Interval of $\sim$ 50 $\text{^\circ C}$ to +85 $\text{^\circ C}$ . IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	8

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37	Apocrine carcinoma of the breast: Mammography and ultrasound findings. <i>European Journal of Radiology Extra</i> , 2006, 60, 55-59.	0.1	7
38	Magnetic field penetration in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> single crystals under conditions of a reduced surface barrier. <i>Superconductor Science and Technology</i> , 2001, 14, 839-843.	3.5	6
39	Unexpected transport and magnetic properties in Y-Ba-Cu-O superconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1196-1203.	1.8	6
40	The Role of Wheel Surface Quality on Structural and Hard Magnetic Properties of Nd-Fe-B Permanent Magnet Powders. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 3025-3041.	1.8	6
41	Effect of interaction between irradiation-induced defects and intrinsic defects in the pinning improvement of neutron irradiated YBaCuO sample. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 636-637.	1.2	5
42	Measurement of fluctuation-induced diamagnetism in BSCCO-2212 single crystals using magneto-optics. <i>Physica C: Superconductivity and Its Applications</i> , 2006, 434, 95-100.	1.2	5
43	Improving the Sensitivity of Superconductor-Based DC Magnetometer. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 2539-2545.	1.8	5
44	Measurements of ultra-low DC fields by high- T <sub>c</sub> superconducting cores: The effect of calcination temperature. <i>Journal of Alloys and Compounds</i> , 2012, 530, 91-96.	5.5	5
45	Optimization of the Temperature Stability of Fluxgate Sensors for Space Applications. <i>IEEE Sensors Journal</i> , 2021, 21, 2749-2756.	4.7	5
46	The role of Doppler sonography in predicting severity of acute pancreatitis. <i>Journal of Clinical Ultrasound</i> , 2008, 36, 141-147.	0.8	4
47	Design and performance analysis of three superconducting magnetic sensors for the measurement of small fields. <i>Measurement Science and Technology</i> , 2013, 24, 105110.	2.6	4
48	Effect of thermal neutron irradiation on the pinning properties of TSMG Sm-123 superconductor. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 388-389, 403-404.	1.2	3
49	Desmoid tumor of the chest wall. <i>European Journal of Radiology Extra</i> , 2003, 46, 119-121.	0.1	3
50	Phase formation and magnetic anomalies in RuSr <sub>2</sub> RECu <sub>2</sub> O <sub>8</sub> (RE=Eu, Gd, Ho) samples. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 1969-1972.	4.0	3
51	Evolution of magnetic and structural properties of TiO <sub>2</sub> with Co-doping. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 1678-1682.	3.1	3
52	Improvement of the magnetic properties of highly porous open-celled magnets. <i>Journal of the European Ceramic Society</i> , 2011, 31, 783-787.	5.7	3
53	Enhanced Magnetic Properties of Nd <sub>15</sub> Fe <sub>77</sub> B <sub>8</sub> Alloy Powders Produced by Melt-Spinning Technique. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5017-5030.	2.2	3
54	Chemical Shift MRI: Is There any Contribution to Morphologic Evaluation of Solid Breast Masses?. <i>Academic Radiology</i> , 2009, 16, 1263-1271.	2.5	2

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55	Ammonium nitrate melt technique for the synthesis of oxide compounds. Journal of Physics: Conference Series, 2009, 153, 012031.	0.4	2
56	Effect of boron doping in the microwave surface resistance of neutron irradiated melt-textured Y1.6Ba2.3Cu3.3O7 $\hat{x}$ samples. Physica C: Superconductivity and Its Applications, 2012, 483, 71-78.	1.2	2
57	Improvement of the remanence properties and the weakening of interparticle interactions in BaFe12O19 particles by B2O3 addition. Physica B: Condensed Matter, 2012, 407, 2058-2062.	2.7	2
58	A Novel Design of Fluxgate Magnetometer: An Insect like Configuration. Journal of Superconductivity and Novel Magnetism, 2015, 28, 711-714.	1.8	2
59	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
60	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
61	Co-existence of diamagnetism and ferromagnetism and possible superconductivity in Y8Ba5Zn4O21. Materials Characterization, 2011, 62, 218-222.	4.4	1
62	Coexistence of Ferromagnetism and Diamagnetism in Y-Ba-Zn-O compound. Journal of Superconductivity and Novel Magnetism, 2011, 24, 957-959.	1.8	1
63	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
64	Magnetic Properties of Sm1 $\hat{x}$ Tb x Ni4B compounds. Journal of Superconductivity and Novel Magnetism, 2012, 25, 1065-1070.	1.8	1
65	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
66	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
67	A typical invasive ductal carcinoma: Two cases. European Journal of Radiology Extra, 2009, 71, e19-e22.	0.1	0
68	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
69	Magnetometer Design for Measuring Ultralow DC Magnetic Fields Using YBa2Cu3O7 $\hat{x}$ Superconductors. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1155-1158.	1.8	0
70	Mechanical Characterization of Ruthenocuprates by Nanoindentation Technique. Journal of Superconductivity and Novel Magnetism, 2015, 28, 519-523.	1.8	0
71	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
72	Optimizing the sensing properties of race-track fluxgates as a function of core layers. AIP Conference Proceedings, 2019, , .	0.4	0

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73	Design of a DC current sensor based on fluxgate principle. AIP Conference Proceedings, 2019, , .	0.4	0