Anjela Koblischka-Veneva

List of Publications by Year
in descending order

136	1,036	516710 16	642732 23
papers	citations	h-index	g-index

143	143	143	489
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optimization of sintering conditions in bulk MgB2 material for improvement of critical current density. Journal of Alloys and Compounds, 2015, 649, 833-842.	5.5	41
2	Interactions of Y2BaCuO5particles and the YBCO matrix within melt-textured YBCO samples studied by means of electron backscatter diffraction. Superconductor Science and Technology, 2005, 18, S158-S163.	3.5	34
3	A study of the effect of KClO3 addition on the AC susceptibility and microstructure of high-temperature (Tconset at 105 K) YBCO ceramic superconductors. Physica C: Superconductivity and Its Applications, 1998, 308, 175-184.	1.2	31
4	Application of electron backscatter diffraction to bulk high-Tc superconductors. Superconductor Science and Technology, 2002, 15, 796-802.	3.5	30
5	Crystallographic Orientation of Y2Ba4CuMOx(M=Nb, Zr, Ag) Nanoparticles Embedded in Bulk, Melt-Textured YBCO Studied by EBSD. Journal of the American Ceramic Society, 2007, 90, 2582-2588.	3.8	28
6	Microstructural Analysis of Electrochemical Coated Openâ€Cell Metal Foams by <scp>EBSD</scp> and Nanoindentation. Advanced Engineering Materials, 2014, 16, 15-20.	3.5	27
7	Applications of the electron backscatter diffraction technique to ceramic materials. Phase Transitions, 2013, 86, 651-660.	1.3	25
8	Characterization of bulk superconductors through EBSD methods. Physica C: Superconductivity and Its Applications, 2003, 392-396, 545-556.	1.2	24
9	Microstructure and Fluctuation-Induced Conductivity Analysis of Bi2Sr2CaCu2O8+Î´ (Bi-2212) Nanowire Fabrics. Crystals, 2020, 10, 986.	2.2	24
10	Giant Enhancement of Magnetostrictive Response in Directionally-Solidified Fe83Ga17Erx Compounds. Materials, 2018, 11, 1039.	2.9	21
11	Superconducting YBCO Foams as Trapped Field Magnets. Materials, 2019, 12, 853.	2.9	20
12	Orientation imaging microscopy analysis of bulk, melt-textured YBCO superconductors. Crystal Engineering, 2002, 5, 265-272.	0.7	19
13	Porous high-<i>T_c</i> superconductors and their applications. AIMS Materials Science, 2018, 5, 1199-1213.	1.4	19
14	Alkali metals impurities influence on the magnetic and electrical properties of YBCO. Journal of Applied Physics, 1994, 75, 6726-6728.	2.5	18
15	Human dental enamel: A natural nanotechnology masterpiece investigated by TEM and t-EBSD. Nano Research, 2018, 11, 3911-3921.	10.4	18
16	Dimensionality and superconducting parameters of YBa2Cu3O7â^'d/(WO3 NPs)x composites deduced from excess conductivity analysis. Materials Chemistry and Physics, 2020, 243, 122665.	4.0	18
17	Electron backscatter diffraction study of polycrystalline YBa2Cu3O7â^'Î´ ceramics. Physica C: Superconductivity and Its Applications, 2002, 382, 311-322.	1.2	17
18	An electron backscatter diffraction investigation of crystallographic orientations of embedded nanoparticles within melt-textured YBCO high temperature superconductors. Superconductor Science and Technology, 2006, 19, S562-S566.	3.5	17

#	Article	IF	Citations
19	Analysis of the microstructure of superconducting YBCO foams by means of AFM and EBSD. Journal of Advanced Ceramics, 2014, 3, 317-325.	17.4	17
20	Highly Porous Superconductors: Synthesis, Research, and Prospects. Physics of Metals and Metallography, 2020, 121, 936-948.	1.0	17
21	Relaxation and pinning in spark-plasma sintered MgB₂superconductor. Superconductor Science and Technology, 2016, 29, 025006.	3.5	16
22	Magnetic phases in superconducting, polycrystalline bulk FeSe samples. AIP Advances, 2021, 11, .	1.3	16
23	Topochemical growth of textured polycrystalline barium hexaferrite from oriented antiferromagnetic Î±-FeOOH nanorods. Nanotechnology, 2009, 20, 445606.	2.6	15
24	EBSD analysis of MgB₂bulk superconductors. Superconductor Science and Technology, 2016, 29, 044007.	3.5	14
25	Excess Conductivity Analysis of Polycrystalline FeSe Samples with the Addition of Ag. Materials, 2020, 13, 5018.	2.9	14
26	Orientation imaging microscopy applied to BaTiO3 ceramics. Crystal Engineering, 2002, 5, 235-242.	0.7	13
27	Novel method of tuning the size of Y₂BaCuO₅ particles and their influence on the physical properties of bulk YBa₂Cu₃O_{7-Î´} superconductor. Applied Physics Express, 2019, 12, 063002.	2.4	13
28	Comparative study of grain orientation in melt-textured HTSC with different additions. Physica C: Superconductivity and Its Applications, 2005, 426-431, 618-624.	1.2	12
29	Crystallographic Orientation Analyses of Magnetite Thin Films Using Electron Backscatter Diffraction (EBSD). IEEE Transactions on Magnetics, 2006, 42, 2873-2875.	2.1	12
30	Interplay of YBCO and Embedded 211 Particles in Melt-Textured YBCO Superconductors. Journal of Superconductivity and Novel Magnetism, 2005, 18, 469-474.	0.5	11
31	Embedded Y2Ba4CuNbOx nanoparticles in melt-textured YBCO studied by means of EBSD. Physica C: Superconductivity and Its Applications, 2006, 445-448, 379-381.	1.2	11
32	Relation between Crystal Structure and Transition Temperature of Superconducting Metals and Alloys. Metals, 2020, 10, 158.	2.3	11
33	CVDâ€“WC and WCxNy diffusion barrier coatings on WC/Co metalloceramics. Materials Letters, 1998, 35, 351-356.	2.6	10
34	Advanced microstructural analysis of ferrite materials by means of electron backscatter diffraction (EBSD). Journal of Magnetism and Magnetic Materials, 2010, 322, 1178-1181.	2.3	10
35	TEM and electron backscatter diffraction analysis (EBSD) on superconducting nanowires. Journal of Physics: Conference Series, 2018, 1054, 012005.	0.4	10
36	Flux creep after field trapping in YBa₂Cu₃O_x foams. Superconductor Science and Technology, 2020, 33, 044008.	3.5	10

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37	Magneto-optical and microstructural investigations on KClO3-doped YBCO HTSC. Physica C: Superconductivity and Its Applications, 2001, 357-360, 201-204.	1.2	9
38	Texture analysis of monofilamentary, Ag-sheathed (Pb,Bi)2Sr2Ca2Cu3Ox tapes by electron backscatter diffraction (EBSD). Physica C: Superconductivity and Its Applications, 2008, 468, 174-182.	1.2	9
39	Analysis of twin boundaries using the electron backscatter diffraction (EBSD) technique. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 151, 60-64.	3.5	9
40	Microstructural and magnetic analysis of a superconducting foam and comparison with IG-processed bulk samples. Journal of Physics: Conference Series, 2016, 695, 012002.	0.4	9
41	On the origin of the sharp, low-field pinning force peaks in MgB2 superconductors. AIP Advances, 2020, 10, 015035.	1.3	9
42	Production of Sharp-Edged and Surface-Damaged Y₂BaCuO₅ by Ultrasound: Significant Improvement of Superconducting Performance of Infiltration Growth-Processed YBa₂Cu₃O_{7â^'Î´} Bulk Superconductors. ACS Omega, 2020, 5, 6250-6259.	3.5	9
43	Superconducting properties and microstructure of YBCO HTSC materials with K2CO3 addition. Physica C: Superconductivity and Its Applications, 1994, 235-240, 805-806.	1.2	8
44	AC susceptibility and microstructure of alkali doped polycrystalline YBCO HTSC materials. Physica C: Superconductivity and Its Applications, 1996, 271, 230-234.	1.2	8
45	Misorientations in [001] magnetite thin films studied by electron backscatter diffraction and magnetic force microscopy. Journal of Applied Physics, 2007, 101, 09M507.	2.5	8
46	Calculation of Tc of Superconducting Elements with the Roeserâ€“Huber Formalism. Metals, 2022, 12, 337.	2.3	8
47	Plasma optical emission studies of high-Tc superconducting and buffer thin film physical vapour deposition. Vacuum, 1997, 48, 803-816.	3.5	7
48	A study of grain orientation of Alkali doped polycrystalline YBCO ceramics using an EBSD technique. Crystal Engineering, 2002, 5, 411-418.	0.7	7
49	Subgrain structures and superconductivity in REâ€“Baâ€“Cuâ€“O bulk superconductors. Physica C: Superconductivity and Its Applications, 2003, 386, 225-230.	1.2	7
50	Effects of subgrains on critical current properties in melt-processed REâ€“Baâ€“Cuâ€“O bulk superconductors. Superconductor Science and Technology, 2004, 17, S61-S65.	3.5	7
51	Nanostripes in (Nd0.33Eu0.28Gd0.38)Ba2Cu3Ox superconductors. Applied Physics Letters, 2007, 91, 082508.	3.3	7
52	Nano-stripe structures in light rare-earth high-Tcsuperconductors. Journal of Physics: Conference Series, 2007, 61, 601-605.	0.4	7
53	Investigation of microstructure of bulk Ni2MnGa alloy by means of electron backscatter diffraction analysis. Journal of Magnetism and Magnetic Materials, 2007, 316, e431-e434.	2.3	7
54	EBSD analysis of melt-textured YBCO with embedded Ag-2411 nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 151, 65-68.	3.5	7

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55	Observation of nanostripes and -clusters in (Nd,EuGd)Ba2Cu3Ox superconductors. Physica C: Superconductivity and Its Applications, 2009, 469, 168-176.	1.2	7
56	Characterization of Electrospun Bi₂Sr₂CaCu₂O_{8+Î´} Nanowires With Reduced Preparation Temperature. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	7
57	Current Flow and Flux Pinning Properties of YBCO Foam Struts. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	7
58	Analysis of the microstructure of bulk MgB 2 using TEM, EBSD and tâ€EBSD. Journal of Microscopy, 2019, 274, 123-131.	1.8	7
59	Fabrication of Superconducting Nanowires Using the Template Method. Nanomaterials, 2021, 11, 1970.	4.1	7
60	Naâ€doping effect on the magnetic properties of the YBCO ceramics. Journal of Applied Physics, 1994, 76, 7118-7120.	2.5	6
61	Texture analysis of melt-textured YBCO superconductors. Physica C: Superconductivity and Its Applications, 2003, 392-396, 601-606.	1.2	6
62	Orientations of Y2BaCuO5 and YBCO within melt-textured and directional solidified samples studied by EBSD. Physica C: Superconductivity and Its Applications, 2003, 392-396, 589-595.	1.2	6
63	Preparation of thin ferrite films on silicon using RF sputtering. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1783-1786.	1.8	6
64	EBSD analysis of the microtexture of Ba-hexaferrite samples. Journal of Physics: Conference Series, 2010, 200, 082014.	0.4	6
65	Comparison of Temperature and Field Dependencies of the Critical Current Densities of Bulk YBCO, MgB<inline-formula> <tex-math notation="LaTeX">$_2$</tex-math> </inline-formula>, and Iron-Based Superconductors. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
66	Comparison of human and bovine dental enamel by TEM and t-EBSD investigations. IOP Conference Series: Materials Science and Engineering, 2019, 625, 012006.	0.6	6
67	Flux Pinning Analysis of Superconducting YBCO Foam Struts. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	6
68	On the influence of K2CO3 additives in obtaining HTSC materials of the YBCO system. Applied Superconductivity, 1995, 3, 43-46.	0.5	5
69	Grain orientations and distribution of Y2Ba4CuUOxphase in melt-textured YBCO with addition of depleted uranium oxide studied by EBSD. Superconductor Science and Technology, 2006, 19, S567-S571.	3.5	5
70	Electron backscatter diffraction analysis applied to [001] magnetite thin films grown on MgO substrates. Journal of Magnetism and Magnetic Materials, 2007, 316, e663-e665.	2.3	5
71	Microstructure and magnetic properties of BaTiO3â€“(Ni,Zn)Fe2O4 multiferroics. Thin Solid Films, 2010, 518, 4730-4733.	1.8	5
72	Microstructure and paramagnetic Meissner effect of YBa2Cu3Oy nanowire networks. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	5

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73	Reproducibility of small Ge2C6H10O7-added MgB2 bulks fabricated by ex situ Spark Plasma Sintering used in compound bulk magnets with a trapped magnetic field above 5ÂT. Scientific Reports, 2020, 10, 10538.	3.3	5
74	Grain boundaries contribution to the complex susceptibility of KCu-Doped YBCO high-temperature superconductors. Journal of Low Temperature Physics, 1997, 107, 497-502.	1.4	4
75	Title is missing!. Journal of Low Temperature Physics, 1999, 117, 939-943.	1.4	4
76	Orientation of embedded Y2BaCuO5particles within the YBa2Cu3Oxmatrix in melt-textured YBCO superconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1714-1719.	0.8	4
77	Microtexture of magnetite thin films of (001) and (111) orientations on MgO substrates studied by electron-backscatter diffraction. Journal of Applied Physics, 2008, 103, 07E505.	2.5	4
78	Analysis of Grain Shape and Orientation in BaFe$_{12}$O$_{19}$-Ferrites Using Electron Backscatter Diffraction (EBSD). IEEE Transactions on Magnetics, 2009, 45, 4219-4222.	2.1	4
79	Pinning Force Scaling Analysis of Polycrystalline MgB2. Journal of Superconductivity and Novel Magnetism, 2020, 33, 3333-3339.	1.8	4
80	Paramagnetic Meissner Effect and Current Flow in YBCO Nanofiber Mats. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	4
81	Superconductivity 2022. Metals, 2022, 12, 568.	2.3	4
82	Magnetic properties and surface resistance of Rb-doped YBaCuO ceramic. IEEE Transactions on Magnetics, 1994, 30, 1187-1189.	2.1	3
83	Magnetic properties of KClO3-doped Y(1-0.2x)Ba(2-0.2x)KxCu3Oy, (x= 0-0.40) HTSC. Superconductor Science and Technology, 2000, 13, 807-810.	3.5	3
84	Texture Analysis of Melt-Textured and Polycrystalline YBa2Cu3O y Using EBSD. Journal of Low Temperature Physics, 2003, 131, 653-657.	1.4	3
85	Nanosized Pinning Sites in HTSC Compounds. Journal of Superconductivity and Novel Magnetism, 2004, 17, 373-377.	0.5	3
86	EBSD characterisation of Y2Ba4CuUOxphase in melttextured YBCO with addition of depleted uranium oxide. Journal of Physics: Conference Series, 2006, 43, 438-441.	0.4	3
87	Characterization of electroplated, thick permalloy films. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1809-1812.	1.8	3
88	Investigation of melt-textured superconductors on the nanoscale. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 151, 47-52.	3.5	3
89	Ion damage during preparation of nanostructures in magnetite by means of focused ion-beam (FIB) milling. Superlattices and Microstructures, 2008, 44, 468-475.	3.1	3
90	Microstructure and Flux Pinning of Reacted-and-Pressed, Polycrystalline Ba0.6K0.4Fe2As2 Powders. Materials, 2019, 12, 2173.	2.9	3

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91	Transmission EBSD (t-EBSD) as Tool to Investigate Nanostructures in Superconductors. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3155-3163.	1.8	3
92	Evolution of Oriented Structures in YBa₂Cu₃O_{7â˜Î´} Films by Liquid Phase Epitaxy through Manipulating Supersaturation. Crystal Growth and Design, 2020, 20, 3334-3340.	3.0	3
93	Secondary phase particles in bulk, infiltration-growth processed YBCO investigated by transmission Kikuchi diffraction and TEM. Superconductor Science and Technology, 2020, 33, 034010.	3.5	3
94	Infiltration growth processing of bulk mixed REBa2Cu3O7-x superconductors: nano-metal oxides and rare earth elements effects on microstructural properties. , 2019, , .		3
95	Flux Pinning Docking Interfaces in Satellites Using Superconducting Foams as Trapped Field Magnets. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	3
96	Field-cooled magnetization of YBa2Cu3O7â˜Î´ superconductors. Physica C: Superconductivity and Its Applications, 2000, 340, 235-242.	1.2	2
97	Microstructural studies of K2CO3 and Rb2CO3 doped YBCO HTSC. Physica C: Superconductivity and Its Applications, 2003, 392-396, 596-600.	1.2	2
98	Nanostripes in (Nd,Eu,Gd)Ba2Cu3Ox (NEG) Single Crystals. Microscopy and Microanalysis, 2007, 13, 356-357.	0.4	2
99	EBSD analysis of the growth of (001) magnetite thin films on MgO substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 64-68.	3.5	2
100	Nanostripes in GdBa2Cu3Ox high-Tc superconductors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 151, 74-78.	3.5	2
101	EBSD analysis of electroplated magnetite thin films. Journal of Magnetism and Magnetic Materials, 2010, 322, 1235-1238.	2.3	2
102	EBSD Characterization of Specific Microstructures in RE-BCO Superconductors. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	2
103	Microstructure and properties of superconducting, ferromagnetic and hybrid nanowire networks of La1.85Sr0.15CuO4 and La0.5Sr0.5MnO3. IOP Conference Series: Materials Science and Engineering, 2019, 625, 012028.	0.6	2
104	Magnetic Characterization of Bulk C-Added MgB₂. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.7	2
105	Microstructure analysis of electrospun La0.8Sr0.2MnO3 nanowires using electron microscopy and electron backscatter diffraction (EBSD). AIP Advances, 2021, 11, 025008.	1.3	2
106	(RE)Ba2Cu3O7â˜Î´ and the Roeser-Huber Formula. Materials, 2021, 14, 6068.	2.9	2
107	Residual Stress/Strain Analysis of Bulk YBCO Superconductors Using EBSD. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	2
108	Measurement of the characteristics of the Earthâ€™s magnetic field using a smartphone magnetic sensor. Physics Education, 2022, 57, 045021.	0.5	2

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109	Magnetic characteristics of K-, Na- and Rb-doped YBCO ceramics. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 1305-1306.	2.3	1
110	Effect of KClO3 addition on the physical properties of YBCO HTSC. Physica B: Condensed Matter, 2000, 284-288, 1029-1030.	2.7	1
111	Investigation of the relation between microstructural parameters and magnetic properties of KClO3-doped YBCO superconductors. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1989-1990.	1.2	1
112	Position-dependent texture analysis of melt-textured YBCO by means of electron backscatter diffraction. Physica C: Superconductivity and Its Applications, 2003, 392-396, 607-612.	1.2	1
113	OIM and X-ray texture analysis of melt-textured YBCO superconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1708-1713.	0.8	1
114	Investigation of grain orientations of melt-textured HTSC with addition of uranium oxide, Y2O3and Y2BaCuO5. Journal of Physics: Conference Series, 2006, 43, 527-530.	0.4	1
115	Analysis of melt-textured YBCO with nanoscale inclusions. Journal of Physics: Conference Series, 2006, 43, 522-526.	0.4	1
116	Study of crossâ€sections of magnetite thin films by means of electron backscatter diffraction (EBSD). Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1835-1838.	1.8	1
117	Study of grain boundary properties in Ag-clad Bi2Sr2Ca2Cu3Oxtapes by multi-phase electron backscatter diffraction analysis. Journal of Physics: Conference Series, 2008, 94, 012011.	0.4	1
118	Texture analysis of melt-spun Ni-Mn-Ga tapes by means of electron backscatter diffraction (EBSD). Journal of Physics: Conference Series, 2010, 200, 082013.	0.4	1
119	Study of grain morphology of various magnetite samples by means of EBSD. Journal of Physics: Conference Series, 2010, 200, 072053.	0.4	1
120	Characterization of nano-composite M-2411/Y-123 thin films by electron backscatter diffraction and in-field critical current measurements. Journal of Physics: Conference Series, 2010, 234, 012006.	0.4	1
121	The interaction of nanostripes and the twin structure in light-rare-earth-element-based 123-type high-Tc superconductors. Physica C: Superconductivity and Its Applications, 2011, 471, 66-70.	1.2	1
122	Surface Preparation of High-T c Superconductors for MO-Imaging. , 2004, , 243-246.		1
123	YBCO. , 0, , .		1
124	Microstructural Parameters for Modelling of Superconducting Foams. Materials, 2022, 15, 2303.	2.9	1
125	Investigation of high-energy ultrasonication of RE₂BaCuO₅(RE = Y, Gd) on the growth and superconducting properties of REBa₂Cu₃O_{7â^'Î´}top-seeded melt textured bulks. Superconductor Science and Technology, 2022, 35, 074003.	3.5	1
126	Crystallographic orientation analysis of magnetite thin films by means of electron backscatter diffraction (EBSD). , 2006, , .		0

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127	EBSD-Analysis of Nanoparticles Embedded in High-Tc Superconductors. Microscopy and Microanalysis, 2007, 13, 360-361.	0.4	0
128	Misorientations in [0 0 1] Magnetite Thin Films Studied by Electron Backscatter Diffraction. Microscopy and Microanalysis, 2007, 13, 362-363.	0.4	0
129	Embedding of nanoparticles as flux pinning sites in superconducting samples. Thin Solid Films, 2010, 518, 4734-4737.	1.8	0
130	Porous high-T_c superconducting cuprates: Advantages and applications. Journal of Physics: Conference Series, 2019, 1293, 012009.	0.4	0
131	Transmission EBSD (t-EBSD) to determine grain and grain boundary properties on nanostructured superconductor samples. Journal of Physics: Conference Series, 2019, 1293, 012008.	0.4	0
132	Magnetoresistance and Structural Characterization of Electrospun La1â^'xSrxMnO3 Nanowire Networks. , 2019, , .		0
133	Introduction to section C. Handbook of Superconducting Materials, 2002, , 891-945.	0.0	0
134	MO-Imaging of Granular And Structured High-T c Superconductors. , 2004, , 71-78.		0
135	Interplay of YBCO and embedded 211 particles in melt-textured YBCO superconductors. Journal of Superconductivity and Novel Magnetism, 2005, 18, 469-474.	0.5	0
136	The possible applications of superconducting nanowire networks. Materials Today: Proceedings, 2022, 54, 125-130.	1.8	0