

# Edmund Otabe

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2337389/publications.pdf>

Version: 2024-02-01

82  
papers

511  
citations

933447

10  
h-index

713466

21  
g-index

84  
all docs

84  
docs citations

84  
times ranked

483  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Feasibility Design Study and Cold Test of the First Model of HTS Cable With the Longitudinal Magnetic Field Effect. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.7	4
2	Study on Polishing Method Using Magnetic Levitation Tool in Superconductive-Assisted Machining. International Journal of Automation Technology, 2021, 15, 234-242.	1.0	3
3	Time-Dependent Ginzburg-Landau Simulation of Critical Current Density Including z-axis Anisotropy. Journal of Physics: Conference Series, 2021, 1857, 012020.	0.4	0
4	Study on the SUAM Double Magnet System for Polishing. International Journal of Automation Technology, 2021, 15, 503-511.	1.0	0
5	Design and evaluation of 10-kA class superconducting DC power cable based on longitudinal magnetic field effect. Journal of Physics: Conference Series, 2021, 1975, 012037.	0.4	0
6	Evaluation of critical current in junction of superconductors with crack using finite element method. Physica C: Superconductivity and Its Applications, 2020, 577, 1353733.	1.2	2
7	Estimation of Machine Parameters in Superconducting Transformer using Differential Evolution. Journal of Physics: Conference Series, 2020, 1590, 012056.	0.4	0
8	Study on Polishing Method Using Double Magnet System by Superconductive Assisted Machining Method. , 2020, , .		1
9	Explicit Integrators Based on a Bipartite Lattice and a Pair of Affine Transformations to Solve Quantum Equations with Gauge Fields. Journal of the Physical Society of Japan, 2020, 89, 054006.	1.6	1
10	Evaluation of superconductor assisted machining (SUAM) with superconducting coated conductors using the finite element method. Journal of Physics: Conference Series, 2020, 1590, 012023.	0.4	0
11	TDGL Simulation on Angular Dependence of Critical Current Density in Superconductors with Columnar Defects. Journal of Physics: Conference Series, 2019, 1293, 012018.	0.4	2
12	Evaluation of Layer Thickness Dependence of Critical Current Density using Longitudinal Magnetic Field Effect in Superconducting Coated Conductors. Journal of Physics: Conference Series, 2019, 1293, 012017.	0.4	2
13	Round Robin Test of Residual Resistance Ratio of Nb <sub>3</sub> Sn Composite Superconductors. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	2
14	Ferromagnetic Coating for Decreasing of Self-Magnetic Field Acting on HTS Tapes. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	1
15	The influence of winding direction of two-layer HTS DC cable on the critical current. Journal of Physics: Conference Series, 2017, 897, 012017.	0.4	0
16	Evaluation of Magnetic Cutting and Polishing with Superconducting Bulks. Journal of Physics: Conference Series, 2017, 871, 012048.	0.4	4
17	Determination of Pinning Parameters in Flux Creep-Flow Model for E-J characteristics of High Temperature Superconductors by using Differential Evolution. Journal of Physics: Conference Series, 2017, 871, 012046.	0.4	1
18	Current Imbalance and AC Losses of Long-Distance DC HTS Cable. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4.	1.7	7

#	ARTICLE	IF	CITATIONS
19	Current imbalance and AC losses of long distance DC HTS cable. , 2015, , .		2
20	Design of Practical Superconducting DC Power Cable With REBCO Coated Conductors. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-7.	1.7	9
21	Fault-Current Limiting Properties in Innovative Force-Free Superconducting DC Cable. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	1
22	Enhanced Current-Carrying Capacity of Three-Layer Cable Composed of Bi-2223 Tapes Using the Longitudinal Field Effect. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.7	4
23	Current-carrying capacity of single layer cable using superconducting Bi-2223 tapes in a parallel magnetic field. Superconductor Science and Technology, 2015, 28, 015011.	3.5	11
24	Current-carrying capacity of HTS DC cables with the reduced Lorentz force. Journal of Physics: Conference Series, 2014, 507, 022045.	0.4	1
25	Design of high current superconducting DC power cable using the longitudinal magnetic field configuration. AIP Conference Proceedings, 2014, , .	0.4	9
26	Fabrication of 1 T Bi-2223 superconducting magnet with 92 mm bore diameter at 77 K. , 2014, , .		0
27	Critical current densities of Sr <sub>0.6</sub> K <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> superconductors estimated from AC susceptibilities. Physica C: Superconductivity and Its Applications, 2013, 484, 35-38.	1.2	3
28	Critical Current Characteristics and Flux Pinning in Fe-Based Pnictide Superconductor. Materials Science Forum, 2013, 750, 288-292.	0.3	0
29	Flux Pinning Properties of BHO Pinning Centers at High Magnetic Fields in GdBCO Coated Conductors. IEEE Transactions on Applied Superconductivity, 2013, 23, 8000304-8000304.	1.7	5
30	Design of Innovative Superconducting DC Cables. TEION KOGAKU (Journal of Cryogenics and) Tj ETQq0 0 0 rgBT /Overlock 1Q Tf 50 302	0.1	0
31	Innovative superconducting force-free cable concept. Superconductor Science and Technology, 2012, 25, 125009.	3.5	15
32	Improvement of flux pinning performance at high magnetic fields in GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> coated conductors with BHO nano-rods through enhancement of B <sub>c2</sub> . Superconductor Science and Technology, 2012, 25, 125003.	3.5	40
33	Condensation Energy Density Properties of Ba-122 Pnictide Superconductor with Columnar Defects Introduced by Heavy-ion Irradiation. Physics Procedia, 2012, 36, 693-697.	1.2	0
34	Critical Current Densities and Force-displacement Characteristics of Fluxoids in Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> Single Crystal. Physics Procedia, 2012, 36, 704-709.	1.2	1
35	Evaluation of Critical Current Density of FeAs-based Superconductors. Progress in Superconductivity and Cryogenics (PSAC), 2012, 14, 1-7.	0.3	1
36	Estimation of Critical Current Densities in Polycrystalline $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ Superconductors. IEEE Transactions on Applied Superconductivity, 2011, 21, 2862-2865.	1.7	0

#	ARTICLE	IF	CITATIONS
37	Development of an $m \text{MgB}_2$ Coil Wound With a Parallel Conductor Composed of Two Tapes With Insulation. IEEE Transactions on Applied Superconductivity, 2011, 21, 1612-1615.	1.7	2
38	Field Angle Dependence of Critical Current Density in YGdBCO Coated Conductor. IEEE Transactions on Applied Superconductivity, 2011, 21, 3210-3213.	1.7	8
39	Influence of nanoparticles on critical current properties in TFA-MOD processed YGdBCO coated conductor. Journal of Physics: Conference Series, 2010, 234, 022018.	0.4	0
40	Critical current characteristics and history dependence in superconducting SmFeAsOF bulk. Journal of Physics: Conference Series, 2010, 234, 012028.	0.4	2
41	Improvement of Electromagnetic Properties of $\text{MgB}_2$ Filaments Due to Deformation to Tape Shape. IEEE Transactions on Applied Superconductivity, 2010, 20, 1601-1604.	1.7	1
42	Bi-2223 superconducting magnet generating over 1T in liquid nitrogen. Journal of Physics: Conference Series, 2010, 234, 032046.	0.4	6
43	AC Magnetic Flux Profile and Critical Current Density Obtained by Campbell's Method in Polycrystalline $m \text{MgB}_2$ . IEEE Transactions on Applied Superconductivity, 2009, 19, 3529-3532.	1.7	1
44	Yeast cells proliferation on various strong static magnetic fields and temperatures. Journal of Physics: Conference Series, 2009, 156, 012016.	0.4	3
45	Flux Pinning Properties at High Temperatures in (Nd, Eu, Gd)Ba <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> Superconductors with 211 Secondary Phase Particles. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan) 11, 1078-1114 (2009)	0.4	0
46	Wideband RL-cancel circuit for the $E-J$ property measurement using the third-harmonic voltage method. Journal of Physics: Conference Series, 2008, 97, 012005.	0.4	5
47	Flux pinning properties of (Nd,Eu,Gd)Ba <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> (NEG-123) superconductor with 211 phase particles. Superconductor Science and Technology, 2007, 20, 345-350.	3.5	24
48	Condensation Energy Density of Superconducting Bi-2223 Single Crystals. AIP Conference Proceedings, 2006, , .	0.4	5
49	Distribution of the critical current density in a mono-core Bi-2223 tape prepared by the over pressure processing. Journal of Physics: Conference Series, 2006, 43, 79-82.	0.4	0
50	Generation of highly stable DC current by using a superconducting transformer. Journal of Physics: Conference Series, 2006, 43, 837-840.	0.4	1
51	Temperature Dependence of AC Transport Current Loss of QMG Bulk Superconductor. Japanese Journal of Applied Physics, 2005, 44, 7436-7439.	1.5	1
52	A standard method of measurement of the irreversibility field for bulk RE-123 superconductors. Superconductor Science and Technology, 2005, 18, S219-S222.	3.5	3
53	Finite-size effect on Néel temperature in antiferromagnetic nanoparticles. Physical Review B, 2005, 72, .	3.2	101
54	The evaluation of $E_{irr}$ characteristics of Bi-2223 silver-sheathed tape in a wide range of electric field. Superconductor Science and Technology, 2004, 17, S10-S14.	3.5	6

#	ARTICLE	IF	CITATIONS
55	The pinning property of Bi-2212 single crystals with columnar defects. Superconductor Science and Technology, 2004, 17, S20-S24.	3.5	11
56	Effect of filament sausing on current-voltage characteristics in a superconducting Bi-2223 tape. AIP Conference Proceedings, 2002, , .	0.4	2
57	Dependence of irreversibility and vortex glass-liquid transition fields on electric field criterion in a superconducting Bi-2223 tape. AIP Conference Proceedings, 2002, , .	0.4	2
58	Effect of Deoxygenation on the Flux-Pinning Properties of Superconducting Y-123.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2002, 37, 420-426.	0.1	0
59	Operating Test for a 1,000A Class Superconducting Transformer Cooled by Cryocoolers for AC Transport Loss Measurement.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of) Tj ETQq1 1001784314 rgBT /Ove	0.1	0
60	Pinning mechanism of the peak effect in melt-processed Y-123 superconductors. Superconductor Science and Technology, 2001, 14, 732-737.	3.5	15
61	Reversible Motion of Flux Lines and AC Losses in High-temperature Superconducting Tapes.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2000, 35, 217-222.	0.1	0
62	Distribution of Shielding Currents in Underdoped Bi-2212 Single Crystal. , 2000, , 404-406.		0
63	E-J Characteristics in a Bi-2223 Silver-Sheathed Tape Wire in the Range of a Very Low Electric Field.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 2000, 35, 523-529.	0.1	0
64	Reversible fluxoid motion in a superconducting Bi-2223 tape with fine filaments. Superconductor Science and Technology, 1999, 12, 1112-1115.	3.5	1
65	Possibility of Reduction in Hysteresis Loss Due to Reversible Fluxoid Motion in a Superconducting Bi-2223 Multifilamentary Wire. Japanese Journal of Applied Physics, 1998, 37, L382-L385.	1.5	5
66	The Estimation of Critical Current Density Using SRPM and AC Methods. , 1997, , 701-704.		0
67	AC Susceptibility Measurements for Superconducting Yâ€“Baâ€“Cuâ€“O Powder. Japanese Journal of Applied Physics, 1996, 35, 6023-6028.	1.5	3
68	Magnetic Properties of Granular Superconductors $Rb_{3}Co_{6}$ . Japanese Journal of Applied Physics, 1995, 34, L1267-L1270.	1.5	4
69	Estimation of Critical Current Density in a Melt-Processed Superconducting Y-Ba-Cu-O Using AC and DC Inductive Methods. Japanese Journal of Applied Physics, 1994, 33, L996-L999.	1.5	10
70	Flux Pinning Characteristics in Bi-2212 Single Crystal. Japanese Journal of Applied Physics, 1993, 32, L720-L722.	1.5	9
71	Flux Creep in a Sinusoidal Washboard Potential in Superconductors. Japanese Journal of Applied Physics, 1992, 31, L33-L35.	1.5	29
72	Irreversibility lines in oxide and metallic superconductors. Superconductor Science and Technology, 1992, 5, S73-S80.	3.5	7

#	ARTICLE	IF	CITATIONS
73	Effect of Size of Superconductor on Estimation of Critical Current Density Using AC Inductive Method. Japanese Journal of Applied Physics, 1992, 31, L169-L171.	1.5	9
74	Critical current characteristics in melt-processed Y-Ba-Cu-O superconductor. Superconductor Science and Technology, 1992, 5, S15-S18.	3.5	17
75	FACTORS DETERMINING CRITICAL CURRENT DENSITY IN MELT-PROCESSED Y-Ba-Cu-O. Journal of Advanced Science, 1992, 4, 110-114,f2.	0.1	0
76	Anisotropy of Irreversibility Line in QMG Processed Y-Ba-Cu-O. , 1992, , 389-392.		2
77	Anomaly in magnetic behavior in oxide superconductors. Physica C: Superconductivity and Its Applications, 1991, 185-189, 2333-2334.	1.2	1
78	Irreversibility Line in Polycrystalline Superconducting Bi-Pb-Sr-Ca-Cu-O with Oriented C-Axis. Japanese Journal of Applied Physics, 1991, 30, L1857-L1860.	1.5	2
79	Critical Current Characteristics in Superconducting Y-Ba-Cu-O Prepared by the Melt Process. Japanese Journal of Applied Physics, 1991, 30, L342-L345.	1.5	71
80	Pinning Characteristics in Superconducting Bi-Pb-Sr-Ca-Cu-O. , 1991, , 507-510.		1
81	History Effect of Critical Current Density in Superconducting Bi-Pb-Sr-Ca-Cu-O Wires. , 1991, , 511-514.		3
82	History Effect of Critical Current Density and Weak Links in Superconducting Bi-Pb-Sr-Ca-Cu-O Tape Wires.. TEION KOGAKU (Journal of Cryogenics and Superconductivity Society of Japan), 1991, 26, 384-388.	0.1	0