

Ernesto Altshuler

List of Publications by Year in descending order

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94
papers

1,646
citations

304368

22
h-index

315357

38
g-index

98
all docs

98
docs citations

98
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	Intruders cooperatively interact with a wall into granular matter. <i>Granular Matter</i> , 2022, 24, 1.	1.1	6
2	Sink versus tilt penetration into shaken dry granular matter: The role of the foundation. <i>Physical Review E</i> , 2022, 105, 024903.	0.8	0
3	Lack of collective motion in granular gases of rotators. <i>New Journal of Physics</i> , 2022, 24, 073002.	1.2	1
4	Design of a magnetically driven current cloak. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 325301.	1.3	0
5	Rolling away from the Wall into Granular Matter. <i>Physical Review Letters</i> , 2020, 125, 078002.	2.9	11
6	In-plane anisotropy in BSCCO superconducting tapes: Transport and magnetometric criteria. <i>Cryogenics</i> , 2020, 109, 103102.	0.9	3
7	<i>E. coli</i> super-contaminates narrow ducts fostered by broad run-time distribution. <i>Science Advances</i> , 2020, 6, eaay0155.	4.7	29
8	Temperature dependence of the in-plane and grains resistivities in Bi-2223 polycrystalline superconductors. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14320-14324.	1.1	0
9	An autonomous robot for continuous tracking of millimetric-sized walkers. <i>Review of Scientific Instruments</i> , 2019, 90, 014102.	0.6	2
10	Microstructural and electrical transport properties of uniaxially pressed $\text{Bi}_{1.65}\text{Pb}_{0.35}\text{Sr}_2\text{Ca}_{2.5}\text{Cu}_{3.5}\text{O}_{10+\delta}$ Bi 1.65 Pb. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6188-6199.	1.1	3
11	Electrical effective parameters of the grains and the Montgomery's method in $\text{Bi}_{1.65}\text{Pb}_{0.35}\text{Sr}_2\text{Ca}_{2.5}\text{Cu}_{3.5}\text{O}_y$ Bi 1.65 Pb. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14322-14327.	1.1	2
12	Does the pelletization pressure modify the effective anisotropy of the grains in (Bi,Pb)2223 bulk system?. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 13058-13069.	1.1	3
13	Guerrilla Science. , 2017, , .		0
14	Smarter Than Bibijaguas. , 2017, , 109-144.		0
15	The Chinese Connection. , 2017, , 5-22.		0
16	Strange Phenomena in Cuban Sands. , 2017, , 23-43.		0
17	Lab-in-a-Bucket: Low Budget Experiments in the Solar System. , 2017, , 45-66.		0
18	Garbage Experiments. , 2017, , 67-83.		0

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19	Should We Be a Little Afraid to Urinate?. , 2017, , 97-107.		0
20	Note: Planetary gravities made simple: Sample test of a Mars rover wheel. Review of Scientific Instruments, 2017, 88, 086107.	0.6	3
21	A simple way for targeted delivery of an antibiotic: In vitro evaluation of a nanoclay-based composite. PLoS ONE, 2017, 12, e0187879.	1.1	15
22	Classification and dynamics of tropical clouds by their fractal dimension. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 983-988.	1.0	13
23	Entangled active matter: From cells to ants. European Physical Journal: Special Topics, 2016, 225, 629-649.	1.2	35
24	Uninformed sacrifice: Evidence against long-range alarm transmission in foraging ants exposed to localized abduction. European Physical Journal: Special Topics, 2016, 225, 663-668.	1.2	5
25	Exponential velocity profile of granular flows down a confined heap. Physical Review E, 2016, 93, 062906.	0.8	7
26	Incorporation of tramadol drug into Li-fluorohectorite clay: A preliminary study of a medical nanofluid. European Physical Journal: Special Topics, 2016, 225, 767-771.	1.2	13
27	Smectite as ciprofloxacin delivery system: Intercalation and temperature-controlled release properties. Applied Clay Science, 2016, 124-125, 150-156.	2.6	36
28	In-plane transport anisotropy in BSCCO-Ag multi-filamentary tapes. Superconductor Science and Technology, 2015, 28, 075008.	1.8	2
29	Living on the edge: transfer and traffic of E. coli in a confined flow. Soft Matter, 2015, 11, 6284-6293.	1.2	59
30	Settling into dry granular media in different gravities. Geophysical Research Letters, 2014, 41, 3032-3037.	1.5	37
31	Note: "Lock-in accelerometry" to follow sink dynamics in shaken granular matter. Review of Scientific Instruments, 2014, 85, 126101.	0.6	13
32	Modeling transport properties of inhomogeneous superconductor-metal composites. Applied Physics Letters, 2014, 105, 202604.	1.5	5
33	Superconductivity in Cuba: Reaching the Frontline. Boston Studies in the Philosophy and History of Science, 2014, , 301-306.	0.4	1
34	Contemporary Cuban Physics Through Scientific Publications: An Insider's View. Boston Studies in the Philosophy and History of Science, 2014, , 439-446.	0.4	1
35	Local transport in multi-filamentary superconductors: longitudinal versus transverse dissipation. Superconductor Science and Technology, 2013, 26, 115004.	1.8	4
36	Foraging at the Edge of Chaos: Internal Clock versus External Forcing. Physical Review Letters, 2013, 110, 268104.	2.9	18

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37	Flow-controlled densification and anomalous dispersion of E. coli through a constriction. <i>Soft Matter</i> , 2013, 9, 1864-1870.	1.2	47
38	Upstream contamination by floating particles. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013, 469, 20130067.	1.0	7
39	Vibrot, a Simple Device for the Conversion of Vibration into Rotation Mediated by Friction: Preliminary Evaluation. <i>PLoS ONE</i> , 2013, 8, e67838.	1.1	35
40	Infinite Penetration of a Projectile into a Granular Medium. <i>Physical Review Letters</i> , 2011, 106, 218001.	2.9	61
41	Two-stage dissipation in a superconducting microbridge: experiment and modeling. <i>Superconductor Science and Technology</i> , 2010, 23, 085005.	1.8	3
42	Avalanche Prediction in a Self-Organized Pile of Beads. <i>Physical Review Letters</i> , 2009, 102, 078701.	2.9	69
43	Revolving rivers in sandpiles: From continuous to intermittent flows. <i>Physical Review E</i> , 2008, 77, 031305.	0.8	10
44	Uphill solitary waves in granular flows. <i>Physical Review E</i> , 2007, 75, 031303.	0.8	13
45	High Resolution Thermal Imaging of Hotspots in Superconducting Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2007, 17, 3215-3218.	1.1	12
46	Laser patterning: A new approach to measure local magneto-transport properties in multifilamentary superconducting tapes. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e930-e933.	1.0	4
47	Measuring activity in ant colonies. <i>Review of Scientific Instruments</i> , 2006, 77, 126102.	0.6	5
48	Quasiperiodic Events in an Earthquake Model. <i>Physical Review Letters</i> , 2006, 96, 098501.	2.9	36
49	Symmetry Breaking in Escaping Ants. <i>American Naturalist</i> , 2005, 166, 643-649.	1.0	150
50	Colloquium: Experiments in vortex avalanches. <i>Reviews of Modern Physics</i> , 2004, 76, 471-487.	16.4	207
51	Vortex avalanches with robust statistics observed in superconducting niobium. <i>Physical Review B</i> , 2004, 70, .	1.1	50
52	Transport properties of YBCO, HBCCO, TBCCO and BSCCO superconducting polycrystals. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 585-586.	0.6	2
53	Experiments in superconducting vortex avalanches. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 501-504.	0.6	2
54	The resistive transition of $(\text{Hg}_{0.85}\text{Re}_{0.15})(\text{Ba}_{1-x}\text{Y}_x)_2\text{Ca}_2\text{Cu}_3\text{O}_{8+\delta}$ superconducting polycrystals. <i>Physica C: Superconductivity and Its Applications</i> , 2003, 383, 365-373.	0.6	21

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55	Josephson junctions in a magnetic field: Insights from coupled pendula. American Journal of Physics, 2003, 71, 405-408.	0.3	6
56	Sandpile Formation by Revolving Rivers. Physical Review Letters, 2003, 91, 014501.	2.9	22
57	Hysteresis and relaxation in TlBa ₂ Ca ₂ Cu ₃ O ₈ superconducting polycrystals. Superconductor Science and Technology, 2003, 16, 857-864.	1.8	21
58	Relaxation of the transport critical current in deoxygenated YBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 2002, 366, 117-122.	0.6	4
59	Magnetic irreversibility in (Hg _{1-x} Rex)Ba ₂ Ca ₂ Cu ₃ O _{8-δ} : effects of neutron irradiation. Physica C: Superconductivity and Its Applications, 2002, 371, 224-228.	0.6	7
60	Origin of dendritic flux patterns in MgB ₂ films. Physica C: Superconductivity and Its Applications, 2002, 369, 93-96.	0.6	70
61	Avalanches in One-Dimensional Piles with Different Types of Bases. Physical Review Letters, 2001, 86, 5490-5493.	2.9	35
62	Simple model for plastic dynamics of a disordered flux-line lattice. Physical Review B, 2001, 64, .	1.1	22
63	Thermally activated avalanches in type-II superconductors. Physical Review B, 2001, 63, .	1.1	5
64	MAGNETIC IRREVERSIBILITY OF THE ZERO-RESISTANCE CRITICAL TEMPERATURE IN YBCO, BSCCO AND HBCCO POLYCRYSTALS. , 2000, , .		0
65	MAGNETIC IRREVERSIBILITY OF THE TRANSPORT CRITICAL CURRENT DENSITY IN YBCO, BSCCO AND HBCCO POLYCRYSTALS. , 2000, , .		0
66	Magnetic hysteresis of Re-doped HBCCO polycrystals. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1481-1482.	0.6	1
67	Hysteresis of the critical current density in YBCO, HBCCO and BSCCO superconducting polycrystals: a comparative study. Physica C: Superconductivity and Its Applications, 2000, 331, 57-66.	0.6	21
68	Time evolution of a natural clinoptilolite in aqueous medium: conductivity and pH experiments. Microporous and Mesoporous Materials, 2000, 40, 173-179.	2.2	47
69	Universality of vortex avalanches in a type II superconductor with periodic pinning. Physica A: Statistical Mechanics and Its Applications, 2000, 275, 15-21.	1.2	7
70	Relaxation of the transport critical current in high-T _c polycrystals. Physical Review B, 1999, 60, 3673-3679.	1.1	19
71	Magnetic hysteresis of the zero-resistance critical temperature in YBaCuO, BiSrCaCuO and HgBaCaCuO superconducting polycrystals. Physica C: Superconductivity and Its Applications, 1999, 314, 73-80.	0.6	14
72	Characterization and neutralizing properties of a natural zeolite/Na ₂ CO ₃ composite material. Microporous and Mesoporous Materials, 1998, 24, 51-58.	2.2	37

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73	Choice of sample size for high transport critical current density in a granular superconductor: percolation versus self-field effects. <i>Superconductor Science and Technology</i> , 1997, 10, 758-762.	1.8	8
74	The azimuthal critical state of a superconducting hollow cylinder. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 292, 39-47.	0.6	1
75	Avalanche behavior in one-dimensional superconductors with a periodic distribution of pinning centers: a Monte Carlo approach. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 281, 317-320.	0.6	2
76	Temperature dependence of some intragranular parameters in BSCCO polycrystalline superconductors obtained through the magnetic hysteresis of J_c . <i>Physica C: Superconductivity and Its Applications</i> , 1997, 292, 48-52.	0.6	8
77	Possible interpretation on the existence of an anomalous inversion of some ZFC and FC transport characteristics in YBCO and BSCCO ceramic superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1996, 272, 13-20.	0.6	3
78	Magnetic hysteresis of the zero-resistance critical temperature of high-T _c granular superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 1995, 8, 603-604.	0.5	0
79	Penetration of circular vortices into a superconducting hollow cylinder. <i>Journal of Superconductivity and Novel Magnetism</i> , 1995, 8, 779-780.	0.5	5
80	Hysteresis in the $c(H)$ characteristics of high-temperature superconducting ceramics and thin films. <i>Journal of Superconductivity and Novel Magnetism</i> , 1995, 8, 781-782.	0.5	5
81	On the negative values of the geometric factors in the intragranular flux-trapping model and the hysteresis in the $J_c(B_a)$ dependence of polycrystalline superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 246, 55-60.	0.6	13
82	Bean-Livingston barriers in ideal type-II superconductors hollow cylinders. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 252, 295-302.	0.6	2
83	AC susceptibility study of the intergranular irreversibility line in BSCCO ceramic superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 255, 76-80.	0.6	9
84	Theory of Shubnikov-de Haas oscillations around the $\nu=1/2$ filling factor of the Landau level: Effect of gauge-field fluctuations. <i>Physical Review B</i> , 1995, 52, 4708-4711.	1.1	20
85	Flux Creep Simulations in Hard Superconductors for Different Critical State Models. <i>Physica Status Solidi (B): Basic Research</i> , 1994, 182, K31.	0.7	4
86	Hysteresis in the $J_c(B_a)$ dependence of (Bi-Pb)-Sr-Ca-Cu-O polycrystalline superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 226, 12-16.	0.6	26
87	Magnetic hysteresis of the zero-resistance critical temperature in $YBa_2Cu_3O_{7-x}$ ceramic superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 234, 368-372.	0.6	4
88	Generation of $J_c(H_e)$ hysteresis curves for granular $YBa_2Cu_3O_{7-x}$ superconductors. <i>Cryogenics</i> , 1993, 33, 308-313.	0.9	39
89	Transport relaxation and intragranular flux creep in polycrystalline $YBa_2Cu_3O_{7-x}$. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 200, 195-200.	0.6	12
90	Flux trapping in transport measurements of $YBa_2Cu_3O_{7-x}$ superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 177, 61-66.	0.6	54

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91	The J_c versus T Dependence in YBaCuO Superconductors and the Ambegaokar-Baratoff Relationship. Physica Status Solidi (B): Basic Research, 1991, 168, K15.	0.7	2
92	J_c vs B curves and the Josephson junction assembly model for Y-Ba-Cu-O superconductors. Solid State Communications, 1990, 76, 799-801.	0.9	8
93	Anomalies in the J_c versus B curves for oxalate route $Y_{1-x}Ba_xCu_{1-y}O$ superconductors. Physica C: Superconductivity and Its Applications, 1990, 172, 361-364.	0.6	2
94	Mössbauer Study of the Reaction Kinetics of Hexagonal M-Phase Ferrites. Physica Status Solidi A, 1985, 89, 427-436.	1.7	11