

Harold S Ruiz

List of Publications by Year in descending order

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39
papers

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687220

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40
all docs

40
docs citations

40
times ranked

400
citing authors

#	ARTICLE	IF	CITATIONS
1	GIS-AHP Multi Criteria Decision Analysis for the optimal location of solar energy plants at Indonesia. Energy Reports, 2020, 6, 3249-3263.	2.5	87
2	Resistive-Type Superconducting Fault Current Limiters: Concepts, Materials, and Numerical Modeling. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	53
3	Crossed-magnetic-field experiments on stacked second generation superconducting tapes: Reduction of the demagnetization effects. Applied Physics Letters, 2014, 104, .	1.5	52
4	General critical states in type-II superconductors. Physical Review B, 2009, 80, .	1.1	48
5	Investigation of Demagnetization in HTS Stacked Tapes Implemented in Electric Machines as a Result of Crossed Magnetic Field. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-4.	1.1	32
6	How to Choose the Superconducting Material Law for the Modelling of 2G-HTS Coils. Materials, 2019, 12, 2679.	1.3	32
7	Nature of the low magnetization decay on stacks of second generation superconducting tapes under crossed and rotating magnetic field experiments. Scientific Reports, 2018, 8, 1342.	1.6	27
8	Optimal location and minimum number of superconducting fault current limiters for the protection of power grids. International Journal of Electrical Power and Energy Systems, 2017, 87, 136-143.	3.3	26
9	Superconducting wire subject to synchronous oscillating excitations: Power dissipation, magnetic response, and low-pass filtering. Applied Physics Letters, 2012, 100, .	1.5	24
10	General approach for the determination of the magneto-angular dependence of the critical current of YBCO coated conductors. Superconductor Science and Technology, 2017, 30, 025010.	1.8	20
11	Exotic magnetic response of superconducting wires subject to synchronous and asynchronous oscillating excitations. Journal of Applied Physics, 2013, 113, 193906.	1.1	19
12	Smooth double critical state theory for type-II superconductors. Superconductor Science and Technology, 2010, 23, 105007.	1.8	16
13	Inversion mechanism for the transport current in type-II superconductors. Physical Review B, 2011, 83, .	1.1	16
14	Power flow analysis and optimal locations of resistive type superconducting fault current limiters. SpringerPlus, 2016, 5, 1972.	1.2	14
15	Experimental Study of the Normal Zone Propagation Velocity in Double-Layer 2G-HTS Wires by Thermal and Electrical Methods. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.1	13
16	GIS-Based Assessment of the Technical and Economic Feasibility of Utility-Scale Solar PV Plants: Case Study in West Kalimantan Province. Sustainability, 2020, 12, 6283.	1.6	13
17	Nature of the nodal kink in angle-resolved photoemission spectra of cuprate superconductors. Physical Review B, 2009, 79, .	1.1	11
18	Study of the Pulsed Field Magnetization Strategy for the Superconducting Rotor. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.1	10

#	ARTICLE	IF	CITATIONS
19	Pulsed field magnetization strategies and the field poles composition in a bulk-type superconducting motor. <i>Physica C: Superconductivity and Its Applications</i> , 2017, 534, 73-81.	0.6	10
20	Strong Localization of the Density of Power Losses in Type-II Superconducting Wires. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 8000404-8000404.	1.1	9
21	3D FEM Modeling of CORC Commercial Cables With Bean's Like Magnetization Currents and Its AC-Losses Behavior. <i>IEEE Transactions on Applied Superconductivity</i> , 2022, 32, 1-5.	1.1	9
22	HTS Motor Performance Evaluation by Different Pulsed Field Magnetization Strategies. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.1	8
23	Material laws and related uncommon phenomena in the electromagnetic response of type-II superconductors in longitudinal geometry. <i>Superconductor Science and Technology</i> , 2011, 24, 115005.	1.8	7
24	Magnetic characteristics and AC losses of DC type-II superconductors under oscillating magnetic fields. <i>Superconductor Science and Technology</i> , 2018, 31, 035006.	1.8	6
25	Electric Field and Energy Losses of Rounded Superconducting/Ferromagnetic Heterostructures at Self-Field Conditions. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	6
26	3D Modelling and Validation of the Optimal Pitch in Commercial CORC Cables. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1241, 012030.	0.3	6
27	Coupling to Phonons in the Migdal-Eliashberg Approach. <i>Journal of Superconductivity and Novel Magnetism</i> , 2008, 21, 21-27.	0.8	5
28	Flux front dynamics and energy losses of magnetically anisotropic 2G-HTS pancake coils under prospective winding deformations. <i>Engineering Research Express</i> , 2019, 1, 015037.	0.8	5
29	Local electromagnetic properties and hysteresis losses in uniformly and non-uniformly wound superconducting racetrack coils. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	5
30	Magnetization Profiles of AC Type-II Superconducting Wires Exposed to DC Magnetic Fields. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-5.	1.1	4
31	Electromagnetic Response of DC Type-II SC Wires Under Oscillating Magnetic Excitations. <i>IEEE Transactions on Applied Superconductivity</i> , 2018, 28, 1-5.	1.1	4
32	Impact of the Magneto Angular Dependence of the Critical Current Density in CORC Cables. <i>IEEE Transactions on Applied Superconductivity</i> , 2022, 32, 1-6.	1.1	4
33	Strength of the phonon-coupling mode in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$, $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$ and $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ composites along the nodal direction. <i>Current Applied Physics</i> , 2012, 12, 550-564.	1.1	2
34	Critical State Theory for the Magnetic Coupling between Soft Ferromagnetic Materials and Type-II Superconductors. <i>Materials</i> , 2021, 14, 6204.	1.3	2
35	Maximum reduction of energy losses in multicore MgB ₂ wires by metastructured soft-ferromagnetic coatings. <i>Scientific Reports</i> , 2022, 12, 7030.	1.6	2
36	Relevance of the Phonon-Coupling Mode on the Superconducting Pairing Interaction of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2011, 24, 1273-1280.	0.8	1

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37	Normal Zone Propagation Velocity and Minimum Quench Energy of Stainless Steel Double-Layered Superconducting Wires Under External Magnetic Fields. Journal of Superconductivity and Novel Magnetism, 2020, 33, 591-597.	0.8	1
38	Optimum Filament Positions Within a MgB ₂ Wire Resulting in Maximum Reduction of AC Losses. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-5.	1.1	1
39	Computational Modelling of Russia's First 2G-HTS Triaxial Cable. IOP Conference Series: Materials Science and Engineering, 2022, 1241, 012031.	0.3	1