

F Michael Russell

List of Publications by Year in descending order

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36
papers

790
citations

566801

15
h-index

500791

28
g-index

38
all docs

38
docs citations

38
times ranked

262
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for moving breathers in a layered crystal insulator at 300 K. Europhysics Letters, 2007, 78, 10004.	0.7	87
2	Localized moving breathers in a 2D hexagonal lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 248, 225-229.	0.9	84
3	Measurements on exotic atoms of helium. Nuclear Physics A, 1983, 392, 297-310.	0.6	75
4	Kaonic Hydrogen atom X-rays. Nuclear Physics A, 1983, 404, 482-494.	0.6	75
5	Moving breathers in a chain of magnetic pendulums. Physical Review B, 1997, 55, 6304-6308.	1.1	59
6	Breathers in cuprate-like lattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 281, 21-25.	0.9	56
7	MeV ion-induced movement of lattice disorder in single crystalline silicon. Europhysics Letters, 2000, 51, 401-406.	0.7	38
8	Influence of moving breathers on vacancies migration. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 315, 364-371.	0.9	36
9	Identification and selection criteria for charged lepton tracks in mica. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1988, 15, 41-44.	0.6	32
10	Positive charge transport in layered crystalline solids. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 130, 489-491.	0.9	26
11	Lattice-solitons in radiation damage. Nuclear Instruments & Methods in Physics Research B, 1995, 105, 30-34.	0.6	23
12	Tracks in Mica caused by Electron Showers. Nature, 1967, 216, 907-909.	13.7	21
13	Duration of Sensitive Period for Track Recording in Mica. Nature, 1968, 217, 51-52.	13.7	19
14	Infinite charge mobility in muscovite at 300 K. Europhysics Letters, 2017, 120, 46001.	0.7	17
15	Search for solitons in solids. Radiation Measurements, 1994, 23, 209-213.	0.7	16
16	Interplay between dispersive and non-dispersive modes in the polaron problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 266, 160-166.	0.9	15
17	Breathers and kinks in a simulated crystal experiment. Discrete and Continuous Dynamical Systems - Series S, 2011, 4, 1107-1118.	0.6	13
18	Dynamical two electron states in a Hubbard-Davydov model. European Physical Journal B, 2004, 42, 95-102.	0.6	11

#	ARTICLE	IF	CITATIONS
19	Radiation damage and recovery due to the interaction of crystal defects with anharmonic lattice excitations. <i>Journal of Nuclear Materials</i> , 2011, 419, 378-385.	1.3	11
20	Hyperconductivity in fluorphlogopite at 300 K and 1.1 T. <i>Europhysics Letters</i> , 2019, 127, 16001.	0.7	11
21	Breathers in systems with intrinsic and extrinsic nonlinearities. <i>Physica D: Nonlinear Phenomena</i> , 2000, 142, 101-112.	1.3	9
22	2-D Breathers and Applications. , 2000, , 293-305.		9
23	Tracks in Mica, 50 Years Later: Review of Evidence for Recording the Tracks of Charged Particles and Mobile Lattice Excitations in Muscovite Mica. <i>Springer Series in Materials Science</i> , 2015, , 3-33.	0.4	9
24	Track formation by release of lattice energy. <i>Nuclear Tracks and Radiation Measurements (1993)</i> , 1993, 22, 65-70.	0.1	6
25	Interaction of moving discrete breathers with interstitial defects. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2011, 4, 1057-1067.	0.6	6
26	Decorated track recording mechanisms in muscovite mica. <i>International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements</i> , 1991, 19, 109-114.	0.6	5
27	Ballistic Charge Transport by Mobile Nonlinear Excitations. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, 2100420.	1.2	4
28	Localized Waves in Silicates. What Do We Know from Experiments?. <i>Springer Proceedings in Complexity</i> , 2021, , 721-734.	0.2	3
29	Concepts of an Mc ² cyclotron. <i>Nuclear Instruments & Methods</i> , 1962, 18-19, 438-446.	1.2	2
30	Long-range effect of ion irradiation on Cu surface segregation in a CuNi system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1976-1979.	0.9	2
31	A Proposal for increasing the Beam Output from a Synchrocyclotron. <i>Nature</i> , 1961, 190, 335-335.	13.7	1
32	The Super-Soc. <i>IEEE Transactions on Nuclear Science</i> , 1966, 13, 309-312.	1.2	1
33	Pendulum analogues to illustrate the particle motion in spiral ridge accelerators. <i>The Journal of Nuclear Energy Part C, Plasma Physics, Accelerators and Nuclear Research</i> , 1960, 1, 124-129.	0.2	0
34	Non-synchronous acceleration of ions in cyclotrons. <i>The Journal of Nuclear Energy Part C, Plasma Physics, Accelerators and Nuclear Research</i> , 1961, 3, 186-195.	0.2	0
35	Rutherford Separated Orbit Cyclotron Booster Injector for Nimrod; Study Status. <i>IEEE Transactions on Nuclear Science</i> , 1966, 13, 458-458.	1.2	0
36	Transport Properties of Quodons in Muscovite and Prediction of Hyper-Conductivity. <i>Understanding Complex Systems</i> , 2018, , 241-260.	0.3	0