

Juan G Roederer

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,179
citations

430874

18
h-index

377865

34
g-index

41
all docs

41
docs citations

41
times ranked

663
citing authors

#	ARTICLE	IF	CITATIONS
1	On the adiabatic motion of energetic particles in a model magnetosphere. Journal of Geophysical Research, 1967, 72, 981-992.	3.3	257
2	The Search for a Survival Value of Music. Music Perception, 1984, 1, 350-356.	1.1	97
3	Introduction to the Physics and Psychophysics of Music. Heidelberg Science Library, 1973, , .	0.0	81
4	Quantitative models of the magnetosphere. Reviews of Geophysics, 1969, 7, 77-96.	23.0	75
5	Dynamics of Magnetically Trapped Particles. Astrophysics and Space Science Library, 2014, , .	2.7	65
6	Motion of magnetospheric particle clouds in a time-dependent electric field model. Journal of Geophysical Research, 1974, 79, 1432-1438.	3.3	56
7	On the relationship between human brain functions and the foundations of physics, science, and technology. Foundations of Physics, 1978, 8, 423-438.	1.3	39
8	Are magnetic storms hazardous to your health?. Eos, 1995, 76, 441-441.	0.1	37
9	Geomagnetic field distortions and their effects on radiation belt particles. Reviews of Geophysics, 1972, 10, 599-630.	23.0	35
10	Coordinates for Representing Radiation Belt Particle Flux. Journal of Geophysical Research: Space Physics, 2018, 123, 1381-1387.	2.4	32
11	On the Concept of Information and Its Role in Nature. Entropy, 2003, 5, 3-33.	2.2	30
12	Human brain functions and the foundations of science. Endeavour, 1979, 3, 99-103.	0.4	26
13	Longitude dependence of geomagnetically trapped electrons. Journal of Geophysical Research, 1967, 72, 4431-4447.	3.3	25
14	Drift shell splitting by internal geomagnetic multipoles. Journal of Geophysical Research, 1973, 78, 133-144.	3.3	25
15	Electric field in the magnetosphere as deduced from asymmetries in the trapped particle flux. Journal of Geophysical Research, 1970, 75, 3923-3926.	3.3	24
16	Splitting of drift shells by the magnetospheric electric field. Journal of Geophysical Research, 1971, 76, 1055-1059.	3.3	23
17	The "zebra stripes": An effect of F region zonal plasma drifts on the longitudinal distribution of radiation belt particles. Journal of Geophysical Research: Space Physics, 2016, 121, 507-518.	2.4	21
18	Jupiter's internal magnetic field geometry relevant to particle trapping. Journal of Geophysical Research, 1977, 82, 5187-5194.	3.3	18

#	ARTICLE	IF	CITATIONS
19	Secularâ€invariant relationships among internal geomagnetic field coefficients. Geophysical Research Letters, 1974, 1, 367-370.	4.0	13
20	Pragmatic information in biology and physics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150152.	3.4	13
21	Physical and Neuropsychological Foundations of Music. , 1982, , 37-46.		13
22	Äœber die Absorption der Nukleonenkomponente der kosmischen Strahlung in -21Â° geomagnetischer Breite. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1952, 7, 765-771.	1.5	12
23	Early Cosmic-Ray Research in Argentina. Physics Today, 2003, 56, 32-37.	0.3	10
24	IMS 1976â€1979: New Concepts in International Scientific Cooperation. Eos, 1976, 57, 6-8.	0.1	9
25	GEM: Geospace Environment Modeling. Eos, 1988, 69, 786.	0.1	7
26	ICSU gives green light to IGBP. Eos, 1986, 67, 777.	0.1	6
27	Let a Thousand Sakharovs Bloom. Bulletin of the Atomic Scientists, 1991, 47, 18-21.	0.6	3
28	After Gorbachev: Science in the former Soviet Union. Eos, 1992, 73, 369-369.	0.1	3
29	Zur Theorie des Breiteneffektes der Nukleonenkomponente der kosmischen Strahlung. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1954, 9, 740-747.	1.5	2
30	Space research policies in advanced and developing countries. Advances in Space Research, 1983, 3, 9-11.	2.6	2
31	Controversy enlivens planning of the International Geosphere-Biosphere Program: One point of view. Eos, 1986, 67, 674.	0.1	2
32	IGBP: Crown jewel or prodigal son?. Eos, 1989, 70, 1552.	0.1	2
33	Information, Life and Brains. , 2000, , 179-194.		2
34	The international magnetospheric study. Acta Astronautica, 1974, 1, 1-14.	3.2	1
35	The participation of developing countries in space research. Space Policy, 1985, 1, 311-317.	1.5	1
36	Forum: The challenge of global change. Eos, 1990, 71, 1085.	0.1	1

#	ARTICLE	IF	CITATIONS
37	Space Physics from Both Ends of the Americas, 1949â€“2019. Journal of Geophysical Research: Space Physics, 2019, 124, 9866-9880.	2.4	1
38	Opening address and foreword. Space Science Reviews, 1983, 34, 5.	8.1	0
39	Music and the evolution of human brain function. , 2009, , 195-210.		0
40	Pragmatic Information in Quantum Mechanics. , 0, , 113-137.		0