

Roberto Meigikos dos Anjos

List of Publications by Year in descending order

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82
papers

2,746
citations

218677

26
h-index

182427

51
g-index

82
all docs

82
docs citations

82
times ranked

1294
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of breakup on the fusion of ${}^6\text{Li}$, ${}^7\text{Li}$, and ${}^9\text{Be}$ with heavy nuclei. <i>Physical Review C</i> , 2004, 70, .	2.9	333
2	Fusion versus Breakup: Observation of Large Fusion Suppression for ${}^9\text{Be}+{}^{208}\text{Pb}$. <i>Physical Review Letters</i> , 1999, 82, 1395-1398.	7.8	264
3	Fusion and breakup in the reactions of ${}^6\text{Li}$ and ${}^7\text{Li}$ nuclei with ${}^{209}\text{Bi}$. <i>Physical Review C</i> , 2002, 66, .	2.9	168
4	Comprehensive study of reaction mechanisms for the ${}^9\text{Be}+{}^{144}\text{Sm}$ system at near- and sub-barrier energies. <i>Physical Review C</i> , 2006, 73, .	2.9	144
5	Uncertainties in the comparison of fusion and reaction cross sections of different systems involving weakly bound nuclei. <i>Physical Review C</i> , 2005, 71, .	2.9	127
6	Effect of the breakup on the fusion and elastic scattering of weakly bound projectiles on ${}^{64}\text{Zn}$. <i>Physical Review C</i> , 2005, 71, .	2.9	121
7	Influence of the ${}^6,{}^7\text{Li}$ breakup process on the near barrier elastic scattering by heavy nuclei. <i>Physical Review C</i> , 1999, 59, 2103-2107.	2.9	115
8	Dispersal of potentially pathogenic bacteria by plastic debris in Guanabara Bay, RJ, Brazil. <i>Marine Pollution Bulletin</i> , 2019, 141, 561-568.	5.0	111
9	Fusion and elastic scattering of ${}^9\text{Be}+{}^{64}\text{Zn}$: A search of the breakup influence on these processes. <i>Physical Review C</i> , 2000, 61, .	2.9	107
10	Threshold anomaly with weakly bound projectiles: Elastic scattering of ${}^9\text{Be}+{}^{27}\text{Al}$. <i>Physical Review C</i> , 2004, 70, .	2.9	70
11	Fusion of stable weakly bound nuclei with ${}^{27}\text{Al}$ and ${}^{64}\text{Zn}$. <i>Physical Review C</i> , 2002, 66, .	2.9	69
12	Fusion, reaction, and breakup cross sections of ${}^9\text{Be}$ on a light mass target. <i>Physical Review C</i> , 2005, 71, .	2.9	68
13	Fusion, break-up and elastic scattering of weakly bound nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1669-S1673.	3.6	68
14	Application of radiometric analysis in the study of provenance and transport processes of Brazilian coastal sediments. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 185-192.	1.7	55
15	External gamma-ray dose rate and radon concentration in indoor environments covered with Brazilian granites. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 1055-1061.	1.7	49
16	Plastic litter pollution along sandy beaches in the Caribbean and Pacific coast of Colombia. <i>Environmental Pollution</i> , 2020, 267, 115495.	7.5	49
17	Systematic study of the nuclear potential through high precision back-angle quasi-elastic scattering measurements. <i>Physical Review C</i> , 2007, 76, .	2.9	39
18	The Antiquity of the Prehistoric Settlement of the Central-South Brazilian Coast. <i>Radiocarbon</i> , 2002, 44, 733-738.	1.8	37

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19	The Brazilian AMS Radiocarbon Laboratory (LAC-UFF) and the Intercomparison of Results with CENA and UGAMS. Radiocarbon, 2013, 55, 325-330.	1.8	36
20	Low-lying inelastic channel couplings versus breakup effects on the fusion cross section. Physical Review C, 2001, 64, .	2.9	35
21	First use of a compound-specific stable isotope (CSSI) technique to trace sediment transport in upland forest catchments of Chile. Science of the Total Environment, 2018, 618, 1114-1124.	8.0	35
22	First evidence of microplastic pollution in the El Quetzalito sand beach of the Guatemalan Caribbean. Marine Pollution Bulletin, 2020, 156, 111220.	5.0	32
23	Competing reaction mechanisms for the $O^{16},^{17},^{18}+^{10},^{11}B$ and $F^{19}+^9Be$ systems. Physical Review C, 1994, 49, 2018-2035.	2.9	31
24	Marine reservoir effect on the Southeastern coast of Brazil: results from the Tarioba shellmound paired samples. Journal of Environmental Radioactivity, 2015, 143, 14-19.	1.7	31
25	Abundance, distribution, and characteristics of microplastics in coastal surface waters of the Colombian Caribbean and Pacific. Environmental Science and Pollution Research, 2021, 28, 43431-43442.	5.3	29
26	Effect of the entrance channel mass asymmetry on the limitation of light heavy-ion fusion cross sections. Physical Review C, 1990, 42, 354-362.	2.9	27
27	Advances in the graphitization protocol at the Radiocarbon Laboratory of the Universidade Federal Fluminense (LAC-UFF) in Brazil. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 402-405.	1.4	27
28	Occupational exposure to radon and natural gamma radiation in the La Carolina, a former gold mine in San Luis Province, Argentina. Journal of Environmental Radioactivity, 2010, 101, 153-158.	1.7	26
29	Variability of ^{137}Cs and ^{40}K soil-to-fruit transfer factor in tropical lemon trees during the fruit development period. Journal of Environmental Radioactivity, 2012, 104, 64-70.	1.7	25
30	Radioecology teaching: evaluation of the background radiation levels from areas with high concentrations of radionuclides in soil. European Journal of Physics, 2004, 25, 133-144.	0.6	24
31	Elastic and inelastic scattering of $O^{16}+^{64}Zn$ at near-barrier energies. Physical Review C, 1996, 53, 2870-2878.	2.9	23
32	Fission decay of very light nuclear systems. Physical Review C, 1993, 48, R2154-R2157.	2.9	21
33	Chronological Model of a Brazilian Holocene Shellmound (Sambaqui da Tarioba, Rio de Janeiro,) Tj ETQq1 1 0.784314 rgBT /Oylock 10	1.8	21
34	Precise nuclear matter densities from heavy-ion collisions. Physical Review C, 2001, 65, .	2.9	18
35	AMS dating of early shellmounds of the southeastern Brazilian coast. Brazilian Journal of Physics, 2003, 33, 276-279.	1.4	18
36	Exploring innovative techniques for identifying geochemical elements as fingerprints of sediment sources in an agricultural catchment of Argentina affected by soil erosion. Environmental Science and Pollution Research, 2018, 25, 20868-20879.	5.3	18

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37	40K/137Cs discrimination ratios to the aboveground organs of tropical plants. Journal of Environmental Radioactivity, 2008, 99, 1127-1135.	1.7	17
38	Correlations between radiometric analysis of Quaternary deposits and the chronology of prehistoric settlements from the southeastern Brazilian coast. Journal of Environmental Radioactivity, 2010, 101, 75-81.	1.7	16
39	The Long-Term Tupiguarani Occupation in Southeastern Brazil. Radiocarbon, 2009, 51, 937-946.	1.8	15
40	Carbon dioxide sources and sinks in the delta of the Para�ba do Sul River (Southeastern Brazil) modulated by carbonate thermodynamics, gas exchange and ecosystem metabolism during estuarine mixing. Marine Chemistry, 2020, 226, 103869.	2.3	15
41	Radioactivity teaching: Environmental consequences of the radiological accident in Goi�nia (Brazil). American Journal of Physics, 2001, 69, 377-381.	0.7	14
42	Radiocesium contamination behavior and its effect on potassium absorption in tropical or subtropical plants. Journal of Environmental Radioactivity, 2006, 86, 241-250.	1.7	14
43	O18+Pd110: Measurements and realistic coupled-channel analysis in a transitional region. Physical Review C, 2006, 74, .	2.9	12
44	Distribution of Plastic Debris in the Pacific and Caribbean Beaches of Panama. Air, Soil and Water Research, 2020, 13, 117862212092026.	2.5	12
45	Elastic, inelastic scatterings and transfer reactions for 16,18O on 58Ni described by the S�o Paulo potential. Brazilian Journal of Physics, 2005, 35, 909-911.	1.4	10
46	Temporal evolution of 137Cs+, K+ and Na+ in fruits of South American tropical species. Science of the Total Environment, 2013, 444, 115-120.	8.0	10
47	Evaluation of microplastic and marine debris on the beaches of Niter�i Oceanic Region, Rio De Janeiro, Brazil. Marine Pollution Bulletin, 2022, 175, 113161.	5.0	9
48	Transfer reactions as a doorway to fusion. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 1315-1321.	3.6	8
49	Remains of 137Cs Contamination in the City of Goi�nia, Brazil. Radiation Protection Dosimetry, 2001, 95, 165-171.	0.8	8
50	Na, K, Ca, Mg, and U-series in fossil bone and the proposal of a radial diffusion�adsorption model of uranium uptake. Journal of Environmental Radioactivity, 2014, 136, 131-139.	1.7	8
51	Using infrared spectroscopy analysis of plastic debris to introduce concepts of interaction of electromagnetic radiation with matter. Physics Education, 2020, 55, 025014.	0.5	8
52	Dissipative processes in light-heavy-ion-induced reactions and their time scales. Physical Review C, 1990, 42, R815-R818.	2.9	7
53	Does the break-up process influence the fusion cross section?. Brazilian Journal of Physics, 2004, 34, 737-741.	1.4	7
54	Accumulation of 137Cs and 40K in aboveground organs of tropical woody fruit plants. Journal of Radioanalytical and Nuclear Chemistry, 2009, 281, 7-10.	1.5	7

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55	Measurements Performed in Goiânia after a new Intervention Action in 2001. Radiation Protection Dosimetry, 2002, 98, 433-435.	0.8	6
56	Radioecological investigations in Brazilian tropical plants. Brazilian Journal of Physics, 2005, 35, 808-810.	1.4	6
57	Coupling fallout ^{210}Pb and stable isotopes (^{13}C , ^{15}N) for catchment urbanization reconstruction in southeastern coastal zone of Brazil. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 1021-1032.	1.5	6
58	Elastic scattering of $^{27}\text{Al} + ^{27}\text{Al}$ at near barrier energies. Physical Review C, 1998, 58, 3445-3450.	2.9	5
59	Radioecology teaching: response to a nuclear or radiological emergency. European Journal of Physics, 2006, 27, 243-255.	0.6	5
60	Assessment the Health Hazard from ^{222}Rn in Old Metalliferous Mines in San Luis, Argentina. Water, Air, and Soil Pollution, 2011, 218, 371-386.	2.4	5
61	Using ^{222}Rn as a tracer of geodynamical processes in underground environments. Science of the Total Environment, 2014, 468-469, 12-18.	8.0	5
62	First Report of Dry Rot Caused by <i>Fusarium oxysporum</i> on Rose (<i>Rosa</i> spp.) in Brazil. Plant Disease, 2009, 93, 766-766.	1.4	5
63	^{137}Cs distribution in guava trees. Brazilian Journal of Physics, 2004, 34, 841-844.	1.4	5
64	The Fusion of Stable Weakly Bound Nuclei. Progress of Theoretical Physics Supplement, 2004, 154, 92-100.	0.1	4
65	Using stable isotopes to discriminate anthropogenic impacts of the sedimentary organic matter pollution in the Rodrigo de Freitas Lagoon (RJ, Brazil). Environmental Science and Pollution Research, 2021, 28, 4515-4530.	5.3	4
66	AMBIENT DOSE EQUIVALENT RATE IN GOIÂNIA 12 YEARS AFTER THE ^{137}Cs RADIOLOGICAL ACCIDENT. Health Physics, 2001, 80, 532-536.	0.5	3
67	Radiometric Analyses of Beach Sands from the Southeast of Brazil. AIP Conference Proceedings, 2007, , .	0.4	3
68	A review of ^{137}Cs and ^{40}K soil-to-plant transfer factors in tropical plants. Journal of Environmental Radioactivity, 2021, 235-236, 106650.	1.7	3
69	Accumulation and long-term behavior of radiocaesium in tropical plants. Brazilian Journal of Physics, 2006, 36, 1345-1348.	1.4	3
70	Complete fusion of weakly bound nuclei applying the delayed X-ray technique: the $^9\text{Be} + ^{144}\text{Sm}$ system. Brazilian Journal of Physics, 2005, 35, 902-905.	1.4	2
71	Reevaluation of dating results for some ^{14}C - AMS applications on the basis of the new calibration curves available. Brazilian Journal of Physics, 2008, 38, 138-143.	1.4	2
72	ISÓTOPOS ESTABLES DE COMPUESTOS ESPECÍFICOS PARA ESTIMAR LA REDISTRIBUCIÓN DEL SUELO POR EVENTOS EROSIVOS. Agrociencia, 2020, 54, 601-618.	0.1	2

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73	Can fusion, elastic and inelastic scattering of heavy ions be understood, without a simultaneous analysis of them?. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 1423-1429.	3.6	1
74	Accumulation of K ⁺ and Cs ⁺ in Tropical Plant Species. , 2010, , .		1
75	Análise da percepção ambiental dos moradores do entorno das lagoas de Piratininga e Itaipu, Niterói (RJ). Revista Brasileira De Educação Ambiental (RevBEA), 2021, 16, 446-469.	0.2	1
76	Exploring Relationship between Perception Indicators and Mitigation Behaviors of Soil Erosion in Undergraduate Students in Sonora, Mexico. Sustainability, 2021, 13, 9282.	3.2	1
77	Accumulation and distribution of ¹³⁷ Cs in tropical plants. AIP Conference Proceedings, 2007, , .	0.4	0
78	Gamma Radiation Measurements in Brazilian Commercial Granites. AIP Conference Proceedings, 2007, , .	0.4	0
79	Provenance and Transport Processes of Sediments along the Southeastern Brazilian Coast. AIP Conference Proceedings, 2008, , .	0.4	0
80	A New ¹⁴ C-AMS Facility at UFF- Niteroi, Brazil. , 2010, , .		0
81	Using ²²² Rn as a tracer of geophysical processes in underground environments. , 2014, , .		0
82	Estudo da ecologia trófica do quelônio Podocnemis unifilis da região do baixo Xingu, utilizando análise isotópica de C e N. Revista Ibero-americana De Ciências Ambientais, 2020, 11, 99-109.	0.1	0