

Sergio Ricardo De Azevedo Souza

List of Publications by Year in descending order

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72
papers

1,156
citations

394421

19
h-index

414414

32
g-index

73
all docs

73
docs citations

73
times ranked

476
citing authors

#	ARTICLE	IF	CITATIONS
1	Isoscaling in statistical models. <i>Physical Review C</i> , 2001, 64, .	2.9	163
2	Energy dependence of multifragmentation in Kr84+197Au collisions. <i>Physical Review C</i> , 1994, 49, R2271-R2275.	2.9	83
3	Fragment distributions for highly charged systems. <i>Physical Review C</i> , 1997, 55, R2132-R2136.	2.9	66
4	Fragment isotope distributions and the isospin dependent equation of state. <i>Physical Review C</i> , 2001, 64, .	2.9	66
5	Isospin effects in nuclear multifragmentation. <i>Physical Review C</i> , 2003, 68, .	2.9	46
6	Formation and breakup of extra-large composite system in central Au+Au collisions. <i>Physical Review Letters</i> , 1994, 73, 628-631.	7.8	39
7	Mass Dependence of Directed Collective Flow. <i>Physical Review Letters</i> , 1996, 77, 3739-3742.	7.8	38
8	A dynamical model for multifragmentation of nuclei. <i>Nuclear Physics A</i> , 1994, 571, 159-184.	1.5	37
9	Probing the symmetry energy from the nuclear isoscaling. <i>Physical Review C</i> , 2008, 78, .	2.9	35
10	Mass parametrizations and predictions of isotopic observables. <i>Physical Review C</i> , 2003, 67, .	2.9	33
11	Scaling in fracture and refreezing of sea ice. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 331, 291-296.	2.6	30
12	Comparisons of statistical multifragmentation and evaporation models for heavy-ion collisions. <i>European Physical Journal A</i> , 2006, 30, 129-139.	2.5	29
13	COMPARISON OF STATISTICAL TREATMENTS FOR THE EQUATION OF STATE FOR CORE-COLLAPSE SUPERNOVAE. <i>Astrophysical Journal</i> , 2009, 707, 1495-1505.	4.5	25
14	Nuclear isotope thermometry. <i>Physical Review C</i> , 2000, 62, .	2.9	22
15	Early appraisal of the fixation probability in directed networks. <i>Physical Review E</i> , 2010, 82, 046114.	2.1	22
16	Fragment emission pattern in central and semi-central heavy-ion collisions. <i>Nuclear Physics A</i> , 1995, 584, 704-718.	1.5	21
17	Thermal fluctuations in heavy-ion fusion reactions. <i>Nuclear Physics A</i> , 1989, 491, 301-313.	1.5	20
18	Stability of excited nuclei in a dynamical simulation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1991, 258, 251-256.	4.1	20

#	ARTICLE	IF	CITATIONS
19	Finite-size effects in isobaric ratios. <i>Physical Review C</i> , 2012, 85, .	2.9	20
20	Isoscaling bearing information on the nuclear caloric curve. <i>Physical Review C</i> , 2004, 69, .	2.9	19
21	Nuclear multifragmentation within the framework of different statistical ensembles. <i>Physical Review C</i> , 2006, 73, .	2.9	18
22	Exotic density shapes in asymmetric heavy ion collisions at intermediate bombarding energies. <i>Physical Review C</i> , 1993, 48, R2555-R2558.	2.9	17
23	Radial flow and multifragmentation within the framework of molecular dynamics approaches. <i>Physical Review C</i> , 1995, 52, 326-330.	2.9	15
24	Statistical multifragmentation model with Skyrme effective interactions. <i>Physical Review C</i> , 2009, 79, .	2.9	15
25	Semiclassical calculations of complete and incomplete fusion in collisions of weakly bound nuclei. <i>Physical Review C</i> , 2018, 98, .	2.9	15
26	Isospin effects and the density dependence of the nuclear symmetry energy. <i>Physical Review C</i> , 2009, 80, .	2.9	14
27	Temperature effects in nuclear isoscaling. <i>Physical Review C</i> , 2009, 80, .	2.9	14
28	Dynamical model for competing opinions. <i>Physical Review E</i> , 2012, 85, 056103.	2.1	12
29	Influence of secondary decay on odd-even staggering of fragment cross sections. <i>Physical Review C</i> , 2013, 88, .	2.9	12
30	Modelling an imperfect market. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 283, 469-478.	2.6	10
31	Cooling dynamics in multi-fragmentation processes. <i>Europhysics Letters</i> , 2006, 74, 806-812.	2.0	10
32	Experimental analysis of lateral impact on planar brittle material. <i>Physical Review E</i> , 2010, 81, 046108.	2.1	10
33	Quasispecies dynamics with network constraints. <i>Journal of Theoretical Biology</i> , 2012, 312, 114-119.	1.7	10
34	Heat capacity of a Fermi system and multifragmentation of nuclei. <i>Physical Review C</i> , 1994, 50, R563-R565.	2.9	9
35	Statistical nature of nuclear multifragmentation. <i>Physical Review C</i> , 1997, 56, 1504-1510.	2.9	9
36	Disappearance of rotational flow and reaction plane dispersions in Kr+Au collisions. <i>Physical Review C</i> , 1998, 57, 1508-1511.	2.9	9

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37	Directed cycles and related structures in random graphs: Static properties. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 381-397.	2.6	9
38	Statistical multifragmentation model with discretized energy and the generalized Fermi breakup: Formulation of the model. Physical Review C, 2013, 88, .	2.9	9
39	Experimental analysis of lateral impact on planar brittle material: Spatial properties of cracks. Physical Review E, 2011, 84, 026115.	2.1	8
40	A computer program for statistical multifragmentation of nuclei. Computer Physics Communications, 2001, 140, 405-411.	7.5	7
41	Schematic models for fragmentation of brittle solids in one and two dimensions. Physica A: Statistical Mechanics and Its Applications, 2007, 374, 680-690.	2.6	7
42	Mechanisms of intermediate mass fragment formation. Physical Review C, 1998, 58, R2659-R2662.	2.9	6
43	Emergence of scale-free networks from local connectivity and communication trade-offs. Physical Review E, 2006, 74, 016113.	2.1	6
44	Network growth for enhanced natural selection. Physical Review E, 2009, 80, 026115.	2.1	6
45	Internal and kinetic temperatures of fragments in the framework of a nuclear statistical multifragmentation model. Physical Review C, 2015, 92, .	2.9	6
46	Fragment multiplicity dependent charge distributions in heavy ion collisions. Physical Review C, 1997, 55, R557-R561.	2.9	5
47	Effects of geometric constraints on the nuclear multifragmentation process. Physical Review C, 2007, 76, .	2.9	5
48	Fermi breakup and the statistical multifragmentation model. Nuclear Physics A, 2012, 876, 77-92.	1.5	5
49	Influence of the density of states on the odd-even staggering in the charge distribution of the emitted fragments in nuclear heavy-ion collisions. Physical Review C, 2014, 90, .	2.9	5
50	Physics of fashion fluctuations. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 539-545.	2.6	4
51	Macroscopic models for the fusion of very heavy ions. Physical Review C, 1993, 47, 2396-2397.	2.9	3
52	Charge equilibration in heavy-ion reactions at intermediate energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 409, 58-63.	4.1	3
53	Nuclear energy release from fragmentation. Nuclear Physics A, 2016, 952, 18-27.	1.5	3
54	Dynamical and many-body correlation effects in the kinetic energy spectra of isotopes produced in nuclear multifragmentation. Physical Review C, 2018, 97, .	2.9	3

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55	Post breakup dynamical evolution of fragments produced in nuclear multifragmentation. Nuclear Physics A, 2019, 989, 69-80.	1.5	3
56	Quasispecies dynamics on a network of interacting genotypes and idiotypes: formulation of the model. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P01022.	2.3	3
57	Reply to "Comment on "Fragment distributions for highly charged systems" ". Physical Review C, 1999, 59, 552-553.	2.9	2
58	Need, greed and noise: competing strategies in a trading model. Physica A: Statistical Mechanics and Its Applications, 2005, 348, 496-504.	2.6	2
59	Quasispecies dynamics on a network of interacting genotypes and idiotypes: applications to autoimmunity and immunodeficiency. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 063501.	2.3	2
60	Many-particle correlations and Coulomb effects on temperatures from fragment momentum fluctuations. Physical Review C, 2017, 96, .	2.9	2
61	Coevolution of the mitotic and meiotic modes of eukaryotic cellular division. Physical Review E, 2018, 98, .	2.1	2
62	Isotopic dependence of the fragments' internal temperatures determined from multifragment emission. Physical Review C, 2018, 97, .	2.9	2
63	Directed cycles and related structures in random graphs: II "Dynamic properties. Physica A: Statistical Mechanics and Its Applications, 2004, 334, 566-582.	2.6	1
64	Emergence of scale-free behavior in networks from limited-horizon linking and cost trade-offs. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1016-1024.	2.6	1
65	Formation and decay of a hot compound nucleus. EPJ Web of Conferences, 2014, 69, 00012.	0.3	1
66	Isobar correlations bearing information on the properties of hot disassembling nuclear sources. Physical Review C, 2020, 102, .	2.9	1
67	Interspecies evolutionary dynamics mediated by public goods in bacterial quorum sensing. Physical Review E, 2021, 103, 012403.	2.1	1
68	Angular patterns from fragments produced in central heavy-ion collisions. Physical Review C, 1994, 50, 257-262.	2.9	0
69	Reply to "Comment on "Macroscopic models for the fusion of very heavy ions" ". Physical Review C, 1994, 49, 2253-2253.	2.9	0
70	Numerical Solution of Kinetic Equations Through a Spline Expansion Method. International Journal of Modern Physics C, 1997, 08, 1223-1236.	1.7	0
71	Bound state densities and the Helmholtz free energy. EPJ Web of Conferences, 2012, 21, 10003.	0.3	0
72	The statistical multifragmentation model: Origins and recent advances. AIP Conference Proceedings, 2016, , .	0.4	0