

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 | Interspecies evolutionary dynamics mediated by public goods in bacterial quorum sensing. <i>Physical Review E</i> , 2021, 103, 012403. | 2.1 | 1 |
| 2 | Isobar correlations bearing information on the properties of hot disassembling nuclear sources. <i>Physical Review C</i> , 2020, 102, . | 2.9 | 1 |
| 3 | Post breakup dynamical evolution of fragments produced in nuclear multifragmentation. <i>Nuclear Physics A</i> , 2019, 989, 69-80. | 1.5 | 3 |
| 4 | Dynamical and many-body correlation effects in the kinetic energy spectra of isotopes produced in nuclear multifragmentation. <i>Physical Review C</i> , 2018, 97, . | 2.9 | 3 |
| 5 | Semiclassical calculations of complete and incomplete fusion in collisions of weakly bound nuclei. <i>Physical Review C</i> , 2018, 98, . | 2.9 | 15 |
| 6 | Coevolution of the mitotic and meiotic modes of eukaryotic cellular division. <i>Physical Review E</i> , 2018, 98, . | 2.1 | 2 |
| 7 | Isotopic dependence of the fragments' internal temperatures determined from multifragment emission. <i>Physical Review C</i> , 2018, 97, . | 2.9 | 2 |
| 8 | Many-particle correlations and Coulomb effects on temperatures from fragment momentum fluctuations. <i>Physical Review C</i> , 2017, 96, . | 2.9 | 2 |
| 9 | Quasispecies dynamics on a network of interacting genotypes and idiotypes: applications to autoimmunity and immunodeficiency. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 063501. | 2.3 | 2 |
| 10 | The statistical multifragmentation model: Origins and recent advances. <i>AIP Conference Proceedings</i> , 2016, , . | 0.4 | 0 |
| 11 | Nuclear energy release from fragmentation. <i>Nuclear Physics A</i> , 2016, 952, 18-27. | 1.5 | 3 |
| 12 | Internal and kinetic temperatures of fragments in the framework of a nuclear statistical multifragmentation model. <i>Physical Review C</i> , 2015, 92, . | 2.9 | 6 |
| 13 | Quasispecies dynamics on a network of interacting genotypes and idiotypes: formulation of the model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P01022. | 2.3 | 3 |
| 14 | Formation and decay of a hot compound nucleus. <i>EPJ Web of Conferences</i> , 2014, 69, 00012. | 0.3 | 1 |
| 15 | Influence of the density of states on the odd-even staggering in the charge distribution of the emitted fragments in nuclear heavy-ion collisions. <i>Physical Review C</i> , 2014, 90, . | 2.9 | 5 |
| 16 | Statistical multifragmentation model with discretized energy and the generalized Fermi breakup: Formulation of the model. <i>Physical Review C</i> , 2013, 88, . | 2.9 | 9 |
| 17 | Influence of secondary decay on odd-even staggering of fragment cross sections. <i>Physical Review C</i> , 2013, 88, . | 2.9 | 12 |
| 18 | Dynamical model for competing opinions. <i>Physical Review E</i> , 2012, 85, 056103. | 2.1 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Finite-size effects in isobaric ratios. <i>Physical Review C</i> , 2012, 85, . | 2.9 | 20 |
| 20 | Quasispecies dynamics with network constraints. <i>Journal of Theoretical Biology</i> , 2012, 312, 114-119. | 1.7 | 10 |
| 21 | Bound state densities and the Helmholtz free energy. <i>EPJ Web of Conferences</i> , 2012, 21, 10003. | 0.3 | 0 |
| 22 | Fermi breakup and the statistical multifragmentation model. <i>Nuclear Physics A</i> , 2012, 876, 77-92. | 1.5 | 5 |
| 23 | Experimental analysis of lateral impact on planar brittle material: Spatial properties of cracks. <i>Physical Review E</i> , 2011, 84, 026115. | 2.1 | 8 |
| 24 | Experimental analysis of lateral impact on planar brittle material. <i>Physical Review E</i> , 2010, 81, 046108. | 2.1 | 10 |
| 25 | Early appraisal of the fixation probability in directed networks. <i>Physical Review E</i> , 2010, 82, 046114. | 2.1 | 22 |
| 26 | COMPARISON OF STATISTICAL TREATMENTS FOR THE EQUATION OF STATE FOR CORE-COLLAPSE SUPERNOVAE. <i>Astrophysical Journal</i> , 2009, 707, 1495-1505. | 4.5 | 25 |
| 27 | Network growth for enhanced natural selection. <i>Physical Review E</i> , 2009, 80, 026115. | 2.1 | 6 |
| 28 | Statistical multifragmentation model with Skyrme effective interactions. <i>Physical Review C</i> , 2009, 79, . | 2.9 | 15 |
| 29 | Isospin effects and the density dependence of the nuclear symmetry energy. <i>Physical Review C</i> , 2009, 80, . | 2.9 | 14 |
| 30 | Temperature effects in nuclear isoscaling. <i>Physical Review C</i> , 2009, 80, . | 2.9 | 14 |
| 31 | Emergence of scale-free behavior in networks from limited-horizon linking and cost trade-offs. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 1016-1024. | 2.6 | 1 |
| 32 | Probing the symmetry energy from the nuclear isoscaling. <i>Physical Review C</i> , 2008, 78, . | 2.9 | 35 |
| 33 | Effects of geometric constraints on the nuclear multifragmentation process. <i>Physical Review C</i> , 2007, 76, . | 2.9 | 5 |
| 34 | Schematic models for fragmentation of brittle solids in one and two dimensions. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 374, 680-690. | 2.6 | 7 |
| 35 | Comparisons of statistical multifragmentation and evaporation models for heavy-ion collisions. <i>European Physical Journal A</i> , 2006, 30, 129-139. | 2.5 | 29 |
| 36 | Cooling dynamics in multi-fragmentation processes. <i>Europhysics Letters</i> , 2006, 74, 806-812. | 2.0 | 10 |

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|----|--|-----|-----------|
| 37 | Nuclear multifragmentation within the framework of different statistical ensembles. Physical Review C, 2006, 73, . | 2.9 | 18 |
| 38 | Emergence of scale-free networks from local connectivity and communication trade-offs. Physical Review E, 2006, 74, 016113. | 2.1 | 6 |
| 39 | Need, greed and noise: competing strategies in a trading model. Physica A: Statistical Mechanics and Its Applications, 2005, 348, 496-504. | 2.6 | 2 |
| 40 | Isoscaling bearing information on the nuclear caloric curve. Physical Review C, 2004, 69, . | 2.9 | 19 |
| 41 | Scaling in fracture and refreezing of sea ice. Physica A: Statistical Mechanics and Its Applications, 2004, 331, 291-296. | 2.6 | 30 |
| 42 | Directed cycles and related structures in random graphs: "Dynamic properties. Physica A: Statistical Mechanics and Its Applications, 2004, 334, 566-582. | 2.6 | 1 |
| 43 | Directed cycles and related structures in random graphs: "Static properties. Physica A: Statistical Mechanics and Its Applications, 2003, 321, 381-397. | 2.6 | 9 |
| 44 | Mass parametrizations and predictions of isotopic observables. Physical Review C, 2003, 67, . | 2.9 | 33 |
| 45 | Isospin effects in nuclear multifragmentation. Physical Review C, 2003, 68, . | 2.9 | 46 |
| 46 | Isoscaling in statistical models. Physical Review C, 2001, 64, . | 2.9 | 163 |
| 47 | A computer program for statistical multifragmentation of nuclei. Computer Physics Communications, 2001, 140, 405-411. | 7.5 | 7 |
| 48 | Fragment isotope distributions and the isospin dependent equation of state. Physical Review C, 2001, 64, . | 2.9 | 66 |
| 49 | Modelling an imperfect market. Physica A: Statistical Mechanics and Its Applications, 2000, 283, 469-478. | 2.6 | 10 |
| 50 | Physics of fashion fluctuations. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 539-545. | 2.6 | 4 |
| 51 | Nuclear isotope thermometry. Physical Review C, 2000, 62, . | 2.9 | 22 |
| 52 | Reply to "Comment on "Fragment distributions for highly charged systems" " Physical Review C, 1999, 59, 552-553. | 2.9 | 2 |
| 53 | Mechanisms of intermediate mass fragment formation. Physical Review C, 1998, 58, R2659-R2662. | 2.9 | 6 |
| 54 | Disappearance of rotational flow and reaction plane dispersions in Kr+Au collisions. Physical Review C, 1998, 57, 1508-1511. | 2.9 | 9 |

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|----|---|-----|-----------|
| 55 | Statistical nature of nuclear multifragmentation. <i>Physical Review C</i> , 1997, 56, 1504-1510. | 2.9 | 9 |
| 56 | Fragment distributions for highly charged systems. <i>Physical Review C</i> , 1997, 55, R2132-R2136. | 2.9 | 66 |
| 57 | Fragment multiplicity dependent charge distributions in heavy ion collisions. <i>Physical Review C</i> , 1997, 55, R557-R561. | 2.9 | 5 |
| 58 | Numerical Solution of Kinetic Equations Through a Spline Expansion Method. <i>International Journal of Modern Physics C</i> , 1997, 08, 1223-1236. | 1.7 | 0 |
| 59 | Charge equilibration in heavy-ion reactions at intermediate energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 409, 58-63. | 4.1 | 3 |
| 60 | Mass Dependence of Directed Collective Flow. <i>Physical Review Letters</i> , 1996, 77, 3739-3742. | 7.8 | 38 |
| 61 | Fragment emission pattern in central and semi-central heavy-ion collisions. <i>Nuclear Physics A</i> , 1995, 584, 704-718. | 1.5 | 21 |
| 62 | Radial flow and multifragmentation within the framework of molecular dynamics approaches. <i>Physical Review C</i> , 1995, 52, 326-330. | 2.9 | 15 |
| 63 | Heat capacity of a Fermi system and multifragmentation of nuclei. <i>Physical Review C</i> , 1994, 50, R563-R565. | 2.9 | 9 |
| 64 | Angular patterns from fragments produced in central heavy-ion collisions. <i>Physical Review C</i> , 1994, 50, 257-262. | 2.9 | 0 |
| 65 | Reply to "Comment on "Macroscopic models for the fusion of very heavy ions". <i>Physical Review C</i> , 1994, 49, 2253-2253. | 2.9 | 0 |
| 66 | 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 |
| 67 | Energy dependence of multifragmentation in Kr84+197Au collisions. <i>Physical Review C</i> , 1994, 49, R2271-R2275. | 2.9 | 83 |
| 68 | A dynamical model for multifragmentation of nuclei. <i>Nuclear Physics A</i> , 1994, 571, 159-184. | 1.5 | 37 |
| 69 | Exotic density shapes in asymmetric heavy ion collisions at intermediate bombarding energies. <i>Physical Review C</i> , 1993, 48, R2555-R2558. | 2.9 | 17 |
| 70 | Macroscopic models for the fusion of very heavy ions. <i>Physical Review C</i> , 1993, 47, 2396-2397. | 2.9 | 3 |
| 71 | 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 |
| 72 | Thermal fluctuations in heavy-ion fusion reactions. <i>Nuclear Physics A</i> , 1989, 491, 301-313. | 1.5 | 20 |