Sergio B Duarte

List of Publications by Year
in descending order

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69	984	430843 18	477281 29
papers	citations	h-index	g-index

69	69	69	402
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HALF-LIVES FOR PROTON EMISSION, ALPHA DECAY, CLUSTER RADIOACTIVITY, AND COLD FISSION PROCESSES CALCULATED IN A UNIFIED THEORETICAL FRAMEWORK. Atomic Data and Nuclear Data Tables, 2002, 80, 235-299.	2.4	112
2	Classical simulation of the Fermi gas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 188, 287-294.	4.1	97
3	Systematics of alpha-decay half-life: new evaluations for alpha-emitter nuclides. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, B23-B30.	3.6	67
4	Many-body cascade calculation for photonuclear reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 406, 1-6.	4.1	40
5	The MCEF code for nuclear evaporation and fission calculations. Computer Physics Communications, 2002, 145, 385-394.	7.5	34
6	The CRISP package for intermediate- and high-energy photonuclear reactions. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 1991-2002.	3.6	34
7	Systematics of half-lives for proton radioactivity. European Physical Journal A, 2007, 34, 417.	2.5	34
8	MASSIVE COMPACT STARS AS QUARK STARS. Astrophysical Journal, 2011, 730, 31.	4.5	30
9	Photofissility of Actinide Nuclei at Intermediate Energies. Physical Review Letters, 2001, 87, .	7.8	29
10	PRESCOLD: Calculation of the half-life for alpha decay, cluster radioactivity and cold fission processes. Computer Physics Communications, 1997, 107, 246-252.	7.5	28
11	Alpha decay and nuclear deformation: the case for favoured alpha transitions of even-even emitters*. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 755-769.	3.6	28
12	Photofissility of heavy nuclei at intermediate energies. Physical Review C, 2002, 66, .	2.9	25
13	Effective liquid drop description for alpha decay of atomic nuclei. Journal of Physics G: Nuclear and Particle Physics, 1998, 24, 1757-1775.	3.6	24
14	Î±-decay systematics for superheavy elements. Physical Review C, 2012, 85, .	2.9	22
15	Photonuclear K+ production calculation near threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 1-6.	4.1	21
16	Photofission and total photoabsorption cross sections in the energy range of shadowing effects. Physical Review C, 2006, 73, .	2.9	21
17	A Monte Carlo method for nuclear evaporation and fission at intermediate energies. Nuclear Instruments & Methods in Physics Research B, 2003, 211, 15-21.	1.4	20
18	Computational cancer cells identification by fractal dimension analysis. Computer Physics Communications, 2009, 180, 850-853.	7.5	20

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19	Optimization of standard patient radiographic images for chest, skull and pelvis exams in conventional x-ray equipment. Physics in Medicine and Biology, 2004, 49, N215-N226.	3.0	18
20	Half-life predictions for decay modes of superheavy nuclei. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 1487-1494.	3.6	18
21	DELTA MATTER FORMATION IN DENSE ASYMMETRIC NUCLEAR MEDIUM. Modern Physics Letters A, 2000, 15, 1529-1537.	1.2	17
22	Alpha half-lives calculation of superheavy nuclei with Q Î± -value predictions based on the Bayesian neural network approach. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 115109.	3.6	14
23	EFFECTS OF Î”-BARYON INTERACTION STRENGTH ON NEUTRON STARS PROPERTIES. International Journal of Modern Physics D, 2007, 16, 175-183.	2.1	13
24	Multiplicity analysis: a study of secondary particle distribution and correlation. Surface Science, 1998, 408, 28-42.	1.9	12
25	Many-body cascade calculation of final state interactions in _Lambda ^{12}C nonmesonic weak decay. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 115105.	3.6	12
26	Fragment mass distributions in the fission of heavy nuclei by intermediate- and high-energy probes. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 085104.	3.6	12
27	EFFECT OF NUCLEAR DEFORMATION ON THE ALPHA-DECAY HALF-LIFE OF EVEN-EVEN ALPHA EMITTERS. International Journal of Modern Physics E, 2000, 09, 205-219.	1.0	11
28	Spallation Product Distributions and Neutron Multiplicities for Accelerator-Driven System Using the CRISP Code. Nuclear Science and Engineering, 2008, 159, 102-105.	1.1	11
29	The utilization of crisp code in hybrid reactor studies. Brazilian Journal of Physics, 2005, 35, 912-914.	1.4	11
30	Mixed states having Poissonian statistics: how to distinguish them from coherent states?. Physica A: Statistical Mechanics and Its Applications, 2000, 285, 397-412.	2.6	10
31	Development of phantom for radiographic image optimization of standard patient in the lateral view of chest and skull examination. Applied Radiation and Isotopes, 2006, 64, 1623-1630.	1.5	10
32	Analysis of biological tissues in infant chest for the development of an equivalent radiographic phantom. Medical Physics, 2012, 39, 1357-1360.	3.0	10
33	The gross theory model for neutrino-nucleus cross-section. New Journal of Physics, 2008, 10, 033007.	2.9	9
34	Objective CT-Based Quantification of Lung Sequelae in Treated Patients With Paracoccidioidomycosis. Medicine (United States), 2014, 93, e167.	1.0	9
35	An effective Lagrangian description of supernova-core bounce. Astrophysics and Space Science, 1992, 194, 313-326.	1.4	8
36	Nuclear photofissility ofnatPb and232Th at energies above the pion photoproduction threshold. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 377-394.	3.6	8

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37	Comments on the rarest alpha activity observed in nature. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 2345-2346.	3.6	7
38	PHASE TRANSITION IN STRANGE QUARK MATTER WITH DENSITY DEPENDENT QUARK MASS. International Journal of Modern Physics D, 2007, 16, 291-295.	2.1	7
39	Quantum states transfer between coupled fields. European Physical Journal D, 2008, 48, 145-149.	1.3	7
40	Quantification of Pulmonary Inflammatory Processes Using Chest Radiography. Medicine (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	6
41	Transferring squeezing and statistics in coupled circuits. Physica A: Statistical Mechanics and Its Applications, 2002, 311, 188-198.	2.6	5
42	Color flavor locked phase transition in strange quark matter. Brazilian Journal of Physics, 2007, 37, 20-22.	1.4	5
43	Effects of strong interaction on the structure of color-flavor-locked quark stars. Physical Review D, 2008, 78, .	4.7	5
44	On the transfer of states in coupled systems. Physica A: Statistical Mechanics and Its Applications, 2003, 329, 391-400.	2.6	4
45	HYBRID STARS WITH DELTA MATTER AND COLORâ€“FLAVOR LOCKED QUARK PHASE. International Journal of Modern Physics D, 2008, 17, 737-746.	2.1	4
46	Nucleon effective mass effects on the Pauli-blocking function. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 2259-2264.	3.6	3
47	Developement of crisp package for spallation reaction studies and its utilization in ADS (Accelerator) Tj ETQq1 1 0.784314 rgBT /Over	1.4	3
48	Time-dependent quantum oscillator as attenuator and amplifier: noise and statistical evolutions. Physica A: Statistical Mechanics and Its Applications, 2004, 341, 379-388.	2.6	3
49	Hot hypernucleus formation in high-energy photonuclear reactions. Brazilian Journal of Physics, 2004, 34, 919-923.	1.4	3
50	Primordial bubbles evolution with beta equilibrium and charge neutrality. Brazilian Journal of Physics, 2005, 35, 858-860.	1.4	3
51	Quantum noise reduction of electrical circuit having a time-dependent parameter: transient behaviour and damping. Physica A: Statistical Mechanics and Its Applications, 1999, 268, 121-128.	2.6	2
52	Multiparticle correlations in resonance-matter formation. European Physical Journal A, 2000, 7, 435-440.	2.5	2
53	ATTENUATION OF SPURIOUS OSCILLATIONS IN THE NUMERICAL CAPTURE OF SHOCK WAVES. International Journal of Modern Physics C, 2006, 17, 1403-1413.	1.7	2
54	O12resonant structure evaluated by the two-proton emission process. Physical Review C, 2009, 80, .	2.9	2

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55	Role of the isovector nucleon-nucleus interaction potential in nonmesonic hypernuclear decay. Physical Review C, 2010, 82, .	2.9	2
56	EXO 0748-676 AS A QUARK STAR. International Journal of Modern Physics D, 2010, 19, 1447-1454.	2.1	2
57	Squeezing in coupled oscillators having neither nonlinear terms nor time-dependent parameters. Brazilian Journal of Physics, 2001, 31, 562-566.	1.4	2
58	New approach to nuclear photofission reactions above 0.15 GeV. Brazilian Journal of Physics, 2004, 34, 924-928.	1.4	1
59	ATTENUATION OF NON-PHYSICAL OSCILLATIONS IN SUPERNOVA SHOCK WAVES. International Journal of Modern Physics D, 2007, 16, 515-520.	2.1	1
60	Computational procedure to determine quantum state evolution in Fock space. Computer Physics Communications, 2009, 180, 226-230.	7.5	1
61	PROTO-NEUTRON STAR FORMATION WITH DELTA-RESONANCE MATTER AND TRAPPED NEUTRINOS. International Journal of Modern Physics D, 2010, 19, 1541-1544.	2.1	1
62	Neutrino diffusion and mass ejection in protoneutron stars. Physical Review D, 2010, 82, .	4.7	1
63	Photofissility at 1 GeV for nuclei throughout the periodic table. Brazilian Journal of Physics, 2005, 35, 915-918.	1.4	1
64	COLOR SUPERCONDUCTING PHASE IN HYBRID NEUTRON STAR WITH DELTA-MATTER. International Journal of Modern Physics E, 2007, 16, 2859-2862.	1.0	0
65	Final state interactions effects on kinetic energy sum spectra in nonmesonic weak decay. Brazilian Journal of Physics, 2010, 40, 309-314.	1.4	0
66	GRAVITATIONAL COLLAPSE OF HOMOGENEOUS SPHEROIDS. International Journal of Modern Physics D, 2010, 19, 1335-1338.	2.1	0
67	SPECTRUM OF SCREENING MASSES FOR SU(2) GAUGE THEORY: UNIVERSALITY CLASS. International Journal of Modern Physics D, 2010, 19, 1725-1729.	2.1	0
68	Two-Proton Energy Spectrum of [sup 12]O Nucleus. , 2011, , .		0
69	NÃºcleos exÃ³ticos e sÃntese dos elementos quÃmicos. Quimica Nova, 2012, 35, 360-366.	0.3	0