

Gonzalo Sanchez-Arriaga

List of Publications by Year in descending order

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66
papers

767
citations

516710

16
h-index

642732

23
g-index

67
all docs

67
docs citations

67
times ranked

552
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the work function of graphene toward application as anode and cathode. <i>Journal of Alloys and Compounds</i> , 2019, 805, 1117-1134.	5.5	68
2	Damping models in the truncated derivative nonlinear Schrödinger equation. <i>Physics of Plasmas</i> , 2007, 14, .	1.9	35
3	Anticorrelation between Ion Acceleration and Nonlinear Coherent Structures from Laser-Underdense Plasma Interaction. <i>Physical Review Letters</i> , 2012, 108, 115003.	7.8	30
4	Modeling and Performance of Electrodynamic Low-Work-Function Tethers with Photoemission Effects. <i>Journal of Propulsion and Power</i> , 2018, 34, 213-220.	2.2	29
5	Optimum sizing of bare-tape tethers for de-orbiting satellites at end of mission. <i>Advances in Space Research</i> , 2015, 56, 1485-1492.	2.6	28
6	Comparison of technologies for deorbiting spacecraft from low-earth-orbit at end of mission. <i>Acta Astronautica</i> , 2017, 138, 536-542.	3.2	28
7	Ion acceleration in underdense plasmas by ultra-short laser pulses. <i>New Journal of Physics</i> , 2014, 16, 033031.	2.9	26
8	Impact of Nonideal Effects on Bare Electrodynamic Tether Performance. <i>Journal of Propulsion and Power</i> , 2015, 31, 951-955.	2.2	23
9	Kinetic features and non-stationary electron trapping in paraxial magnetic nozzles. <i>Plasma Sources Science and Technology</i> , 2018, 27, 035002.	3.1	20
10	Dynamics and Control of Single-Line Kites. <i>Aeronautical Journal</i> , 2006, 110, 615-621.	1.6	19
11	Rogue waves in Alfvénic turbulence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3997-4002.	2.1	18
12	Relativistic current collection by a cylindrical Langmuir probe. <i>Physics of Plasmas</i> , 2012, 19, 063506.	1.9	18
13	Interaction of spatially overlapping standing electromagnetic solitons in plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 473-477.	2.1	17
14	Relativistic breather-type solitary waves with linear polarization in cold plasmas. <i>Physical Review E</i> , 2015, 91, 033102.	2.1	17
15	Direct Vlasov simulations of electron-attracting cylindrical Langmuir probes in flowing plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	16
16	Orbital motion theory and operational regimes for cylindrical emissive probes. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	16
17	The E.T.PACK project: Towards a fully passive and consumable-less deorbit kit based on low-work-function tether technology. <i>Acta Astronautica</i> , 2020, 177, 821-827.	3.2	16
18	Two-dimensional $\langle \mathbf{v} \cdot \mathbf{v} \rangle$ -polarized solitary waves in relativistic plasmas. I. The fluid plasma model. <i>Physical Review E</i> , 2011, 84, 036403.	2.1	15

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19	Two-dimensional s -polarized solitary waves in plasmas. II. Stability, collisions, electromagnetic bursts, and post-soliton evolution. <i>Physical Review E</i> , 2011, 84, 036404.	2.1	15
20	A lagrangian flight simulator for airborne wind energy systems. <i>Applied Mathematical Modelling</i> , 2019, 69, 665-684.	4.2	15
21	Modeling and dynamics of a two-line kite. <i>Applied Mathematical Modelling</i> , 2017, 47, 473-486.	4.2	14
22	The truncation model of the derivative nonlinear Schrödinger equation. <i>Physics of Plasmas</i> , 2009, 16, 042302.	1.9	13
23	Relativistic solitary waves modulating long laser pulses in plasmas. <i>Plasma Physics and Controlled Fusion</i> , 2011, 53, 045011.	2.1	13
24	Deployment requirements for deorbiting electrodynamic tether technology. <i>CEAS Space Journal</i> , 2021, 13, 567-581.	2.3	13
25	Time-dependent expansion of a weakly-collisional plasma beam in a paraxial magnetic nozzle. <i>Plasma Sources Science and Technology</i> , 2021, 30, 045009.	3.1	13
26	A direct Vlasov code to study the non-stationary current collection by a cylindrical Langmuir probe. <i>Physics of Plasmas</i> , 2013, 20, 013504.	1.9	12
27	Flight Dynamics and Stability of Kites in Steady and Unsteady Wind Conditions. <i>Journal of Aircraft</i> , 2015, 52, 660-666.	2.4	12
28	Kite Model with Bridle Control for Wind-Power Generation. <i>Journal of Aircraft</i> , 2015, 52, 917-923.	2.4	12
29	Modeling and Stability Analysis of Tethered Kites at High Altitudes. <i>Journal of Guidance, Control, and Dynamics</i> , 2017, 40, 1892-1901.	2.8	12
30	Relativistic solitary waves with phase modulation embedded in long laser pulses in plasmas. <i>Physics of Plasmas</i> , 2011, 18, 082304.	1.9	11
31	Validation of enabling technologies for deorbiting devices based on electrodynamic tethers. <i>Acta Astronautica</i> , 2022, 198, 707-719.	3.2	11
32	Alfvén soliton and multisoliton dynamics perturbed by nonlinear Landau damping. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	10
33	Modeling relativistic soliton interactions in overdense plasmas: A perturbed nonlinear Schrödinger equation framework. <i>Physical Review E</i> , 2014, 90, 063104.	2.1	10
34	A bare-photovoltaic tether for consumable-less and autonomous space propulsion and power generation. <i>Acta Astronautica</i> , 2021, 180, 350-360.	3.2	10
35	Analysis of thermionic bare tether operation regimes in passive mode. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	9
36	Electrical model and optimal design scheme for low work-function tethers in thrust mode. <i>Aerospace Science and Technology</i> , 2020, 96, 105519.	4.8	9

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37	The effect of cesium dopant on APCVD graphene coating on copper. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9798-9812.	5.8	9
38	Quasicollapse of oblique solitons of the weakly dissipative derivative nonlinear Schrödinger equation. <i>Physical Review E</i> , 2010, 82, 016406.	2.1	8
39	Flight-Path Reconstruction and Flight Test of Four-Line Power Kites. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 2604-2614.	2.8	8
40	Optimal Design and Deorbiting Performance of Thermionic Tethers in Geostationary Transfer Orbits. <i>Journal of Propulsion and Power</i> , 2017, 33, 425-432.	2.2	7
41	A code for the analysis of missions with electrodynamic tethers. <i>Acta Astronautica</i> , 2022, 198, 471-481.	3.2	7
42	Magnetic pumping of whistler waves by tether current modulation. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	6
43	Efficient Computation of Current Collection in Bare Electrodynamic Tethers in and beyond OML Regime. <i>Journal of Aerospace Engineering</i> , 2015, 28, 04014144.	1.4	6
44	Parametrization of current-voltage characteristics and operation domains of cylindrical emissive probes in collisionless Maxwellian plasmas at rest. <i>Plasma Physics and Controlled Fusion</i> , 0, , .	2.1	6
45	Deorbit kit demonstration mission. <i>Journal of Space Safety Engineering</i> , 2022, 9, 165-173.	0.9	6
46	Truncation model in the triple-degenerate derivative nonlinear Schrödinger equation. <i>Physics of Plasmas</i> , 2009, 16, 042303.	1.9	5
47	Relativistic quasi-solitons and embedded solitons with circular polarization in cold plasmas. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 185501.	2.1	4
48	Kinetic features of collisionless sheaths around polarized cylindrical emitters from the orbital motion theory. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	4
49	Analysis of Tether-Mission Concept for Multiple Flybys of Moon Europa. <i>Journal of Propulsion and Power</i> , 2017, 33, 338-342.	2.2	4
50	Identification of kite aerodynamic characteristics using the estimation before modeling technique. <i>Wind Energy</i> , 2021, 24, 596-608.	4.2	4
51	Current-Voltage and Floating-Potential characteristics of cylindrical emissive probes from a full-kinetic model based on the orbital motion theory. <i>Journal of Physics: Conference Series</i> , 2018, 958, 012001.	0.4	3
52	Ionospheric Experiment with a Low Work Function Tether Loop. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 212-221.	2.8	3
53	Trade-off analysis of C12A7:e ⁺ deposition techniques applied to Low Work Function Tethers. <i>Acta Astronautica</i> , 2020, 177, 806-812.	3.2	3
54	Attitude determination and control for the deployment preparation phase of a space tether mission. <i>Acta Astronautica</i> , 2022, 193, 381-394.	3.2	3

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55	The behavior of the electron plasma boundary in ultraintense laser–highly overdense plasma interaction. <i>Physics of Plasmas</i> , 2014, 21, 123107.	1.9	2
56	A constraint-free flight simulator package for airborne wind energy systems. <i>Journal of Physics: Conference Series</i> , 2018, 1037, 062018.	0.4	2
57	Structure and evolution of magnetohydrodynamic solitary waves with Hall and finite Larmor radius effects. <i>Physical Review E</i> , 2019, 99, 023202.	2.1	2
58	Low work-function tether Deorbit Kit. <i>Journal of Space Safety Engineering</i> , 2020, 7, 332-339.	0.9	2
59	Limitations of stationary Vlasov-Poisson solvers in probe theory. <i>Journal of Computational Physics</i> , 2021, 438, 110366.	3.8	2
60	Three-Dimensional Unsteady Aerodynamic Analysis of a Rigid-Framed Delta Kite Applied to Airborne Wind Energy. <i>Energies</i> , 2021, 14, 8080.	3.1	2
61	Structure of intermediate shocks in collisionless anisotropic Hall-magnetohydrodynamics plasma models. <i>Physics of Plasmas</i> , 2013, 20, 102102.	1.9	1
62	Modeling and Natural Mode Analysis of Tethered Multi-Aircraft Systems. <i>Journal of Guidance, Control, and Dynamics</i> , 2021, 44, 1199-1210.	2.8	1
63	Impact risk assessment of deorbiting strategies in Low Earth Orbits. , 2021, , .		1
64	Kinetic analysis of the plasma sheath around an electron-emitting object with elliptic cross section. <i>Physical Review E</i> , 2021, 104, 055204.	2.1	1
65	Fast magnetosonic wave excitation by an array of wires with time-modulated currents. <i>Annales Geophysicae</i> , 2010, 28, 577-586.	1.6	0
66	Tethers in space. <i>Acta Astronautica</i> , 2020, 177, 749.	3.2	0