Gonzalo Sanchez-Arriaga

List of Publications by Year
in descending order

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	Attitude determination and control for the deployment preparation phase of a space tether mission. Acta Astronautica, 2022, 193, 381-394.	3.2	3
2	Deorbit kit demonstration mission. Journal of Space Safety Engineering, 2022, 9, 165-173.	0.9	6
3	Validation of enabling technologies for deorbiting devices based on electrodynamic tethers. Acta Astronautica, 2022, 198, 707-719.	3.2	11
4	A code for the analysis of missions with electrodynamic tethers. Acta Astronautica, 2022, 198, 471-481.	3.2	7
5	Identification of kite aerodynamic characteristics using the estimation before modeling technique. Wind Energy, 2021, 24, 596-608.	4.2	4
6	Deployment requirements for deorbiting electrodynamic tether technology. CEAS Space Journal, 2021, 13, 567-581.	2.3	13
7	A bare-photovoltaic tether for consumable-less and autonomous space propulsion and power generation. Acta Astronautica, 2021, 180, 350-360.	3.2	10
8	Time-dependent expansion of a weakly-collisional plasma beam in a paraxial magnetic nozzle. Plasma Sources Science and Technology, 2021, 30, 045009.	3.1	13
9	Modeling and Natural Mode Analysis of Tethered Multi-Aircraft Systems. Journal of Guidance, Control, and Dynamics, 2021, 44, 1199-1210.	2.8	1
10	Limitations of stationary Vlasov-Poisson solvers in probe theory. Journal of Computational Physics, 2021, 438, 110366.	3.8	2
11	Impact risk assessment of deorbiting strategies in Low Earth Orbits. , 2021, , .		1
12	Kinetic analysis of the plasma sheath around an electron-emitting object with elliptic cross section. Physical Review E, 2021, 104, 055204.	2.1	1
13	Three-Dimensional Unsteady Aerodynamic Analysis of a Rigid-Framed Delta Kite Applied to Airborne Wind Energy. Energies, 2021, 14, 8080.	3.1	2
14	Electrical model and optimal design scheme for low work-function tethers in thrust mode. Aerospace Science and Technology, 2020, 96, 105519.	4.8	9
15	The effect of cesium dopant on APCVD graphene coating on copper. Journal of Materials Research and Technology, 2020, 9, 9798-9812.	5.8	9
16	Tethers in space. Acta Astronautica, 2020, 177, 749.	3.2	0
17	Low work-function tether Deorbit Kit. Journal of Space Safety Engineering, 2020, 7, 332-339.	0.9	2
18	Ionospheric Experiment with a Low Work Function Tether Loop. Journal of Guidance, Control, and Dynamics, 2020, 43, 212-221.	2.8	3

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19	The E.T.PACK project: Towards a fully passive and consumable-less deorbit kit based on low-work-function tether technology. Acta Astronautica, 2020, 177, 821-827.	3.2	16
20	Trade-off analysis of C12A7:eâ˘' deposition techniques applied to Low Work Function Tethers. Acta Astronautica, 2020, 177, 806-812.	3.2	3
21	Tuning the work function of graphene toward application as anode and cathode. Journal of Alloys and Compounds, 2019, 805, 1117-1134.	5.5	68
22	A lagrangian flight simulator for airborne wind energy systems. Applied Mathematical Modelling, 2019, 69, 665-684.	4.2	15
23	Structure and evolution of magnetohydrodynamic solitary waves with Hall and finite Larmor radius effects. Physical Review E, 2019, 99, 023202.	2.1	2
24	Current-Voltage and Floating-Potential characteristics of cylindrical emissive probes from a full-kinetic model based on the orbital motion theory. Journal of Physics: Conference Series, 2018, 958, 012001.	0.4	3
25	Kinetic features and non-stationary electron trapping in paraxial magnetic nozzles. Plasma Sources Science and Technology, 2018, 27, 035002.	3.1	20
26	Modeling and Performance of Electrodynamic Low-Work-Function Tethers with Photoemission Effects. Journal of Propulsion and Power, 2018, 34, 213-220.	2.2	29
27	A constraint-free flight simulator package for airborne wind energy systems. Journal of Physics: Conference Series, 2018, 1037, 062018.	0.4	2
28	Flight-Path Reconstruction and Flight Test of Four-Line Power Kites. Journal of Guidance, Control, and Dynamics, 2018, 41, 2604-2614.	2.8	8
29	Analysis of thermionic bare tether operation regimes in passive mode. Physics of Plasmas, 2017, 24, .	1.9	9
30	Orbital motion theory and operational regimes for cylindrical emissive probes. Physics of Plasmas, 2017, 24, .	1.9	16
31	Comparison of technologies for deorbiting spacecraft from low-earth-orbit at end of mission. Acta Astronautica, 2017, 138, 536-542.	3.2	28
32	Modeling and Stability Analysis of Tethered Kites at High Altitudes. Journal of Guidance, Control, and Dynamics, 2017, 40, 1892-1901.	2.8	12
33	Modeling and dynamics of a two-line kite. Applied Mathematical Modelling, 2017, 47, 473-486.	4.2	14
34	Relativistic quasi-solitons and embedded solitons with circular polarization in cold plasmas. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 185501.	2.1	4
35	Kinetic features of collisionless sheaths around polarized cylindrical emitters from the orbital motion theory. Physics of Plasmas, 2017, 24, .	1.9	4
36	Analysis of Tether-Mission Concept for Multiple Flybys of Moon Europa. Journal of Propulsion and Power, 2017, 33, 338-342.	2.2	4

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37	Optimal Design and Deorbiting Performance of Thermionic Tethers in Geostationary Transfer Orbits. Journal of Propulsion and Power, 2017, 33, 425-432.	2.2	7
38	Impact of Nonideal Effects on Bare Electrodynamic Tether Performance. Journal of Propulsion and Power, 2015, 31, 951-955.	2.2	23
39	Flight Dynamics and Stability of Kites in Steady and Unsteady Wind Conditions. Journal of Aircraft, 2015, 52, 660-666.	2.4	12
40	Optimum sizing of bare-tape tethers for de-orbiting satellites at end of mission. Advances in Space Research, 2015, 56, 1485-1492.	2.6	28
41	Relativistic breather-type solitary waves with linear polarization in cold plasmas. Physical Review E, 2015, 91, 033102.	2.1	17
42	Kite Model with Bridle Control for Wind-Power Generation. Journal of Aircraft, 2015, 52, 917-923.	2.4	12
43	Efficient Computation of Current Collection in Bare Electrodynamic Tethers in and beyond OML Regime. Journal of Aerospace Engineering, 2015, 28, 04014144.	1.4	6
44	The behavior of the electron plasma boundary in ultraintense laser–highly overdense plasma interaction. Physics of Plasmas, 2014, 21, 123107.	1.9	2
45	Direct Vlasov simulations of electron-attracting cylindrical Langmuir probes in flowing plasmas. Physics of Plasmas, 2014, 21, .	1.9	16
46	Modeling relativistic soliton interactions in overdense plasmas: A perturbed nonlinear Schrödinger equation framework. Physical Review E, 2014, 90, 063104.	2.1	10
47	Ion acceleration in underdense plasmas by ultra-short laser pulses. New Journal of Physics, 2014, 16, 033031.	2.9	26
48	A direct Vlasov code to study the non-stationary current collection by a cylindrical Langmuir probe. Physics of Plasmas, 2013, 20, 013504.	1.9	12
49	Interaction of spatially overlapping standing electromagnetic solitons in plasmas. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 473-477.	2.1	17
50	Structure of intermediate shocks in collisionless anisotropic Hall-magnetohydrodynamics plasma models. Physics of Plasmas, 2013, 20, 102102.	1.9	1
51	Relativistic current collection by a cylindrical Langmuir probe. Physics of Plasmas, 2012, 19, 063506.	1.9	18
52	Anticorrelation between Ion Acceleration and Nonlinear Coherent Structures from Laser-Underdense Plasma Interaction. Physical Review Letters, 2012, 108, 115003.	7.8	30
53	Rogue waves in Alfvénic turbulence. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3997-4002.	2.1	18
54	Relativistic solitary waves with phase modulation embedded in long laser pulses in plasmas. Physics of Plasmas, 2011, 18, 082304.	1.9	11

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55	Relativistic solitary waves modulating long laser pulses in plasmas. Plasma Physics and Controlled Fusion, 2011, 53, 045011.	2.1	13
56	Two-dimensional s-polarized solitary waves in relativistic plasmas. I. The fluid plasma model. Physical Review E, 2011, 84, 036403.	2.1	15
57	Two-dimensional s-polarized solitary waves in plasmas. II. Stability, collisions, electromagnetic bursts, and post-soliton evolution. Physical Review E, 2011, 84, 036404.	2.1	15
58	Fast magnetosonic wave excitation by an array of wires with time-modulated currents. Annales Geophysicae, 2010, 28, 577-586.	1.6	0
59	Alfven soliton and multisoliton dynamics perturbed by nonlinear Landau damping. Physics of Plasmas, 2010, 17, .	1.9	10
60	Magnetic pumping of whistler waves by tether current modulation. Journal of Geophysical Research, 2010, 115, .	3.3	6
61	Quasicollapse of oblique solitons of the weakly dissipative derivative nonlinear Schrödinger equation. Physical Review E, 2010, 82, 016406.	2.1	8
62	Truncation model in the triple-degenerate derivative nonlinear Schrödinger equation. Physics of Plasmas, 2009, 16, 042303.	1.9	5
63	The truncation model of the derivative nonlinear Schrödinger equation. Physics of Plasmas, 2009, 16, 042302.	1.9	13
64	Damping models in the truncated derivative nonlinear Schrödinger equation. Physics of Plasmas, 2007, 14, .	1.9	35
65	Dynamics and Control of Single-Line Kites. Aeronautical Journal, 2006, 110, 615-621.	1.6	19
66	Parametrization of current-voltage characteristics and operation domains of cylindrical emissive probes in collisionless Maxwellian plasmas at rest. Plasma Physics and Controlled Fusion, 0, , .	2.1	6