

Simone Landi

List of Publications by Year in descending order

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91
papers

2,806
citations

126708

33
h-index

197535

49
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95
all docs

95
docs citations

95
times ranked

2227
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of the solar wind proton temperature anisotropy from 0.3 to 2.5 AU. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	177
2	Poaceae vs. Abiotic Stress: Focus on Drought and Salt Stress, Recent Insights and Perspectives. <i>Frontiers in Plant Science</i> , 2017, 8, 1214.	1.7	99
3	Ion Kinetics in the Solar Wind: Coupling Global Expansion to Local Microphysics. <i>Space Science Reviews</i> , 2012, 172, 373-396.	3.7	95
4	Magnetic Reconnection as a Driver for a Sub-ion-scale Cascade in Plasma Turbulence. <i>Astrophysical Journal Letters</i> , 2017, 850, L16.	3.0	92
5	HIGH-RESOLUTION HYBRID SIMULATIONS OF KINETIC PLASMA TURBULENCE AT PROTON SCALES. <i>Astrophysical Journal</i> , 2015, 812, 21.	1.6	90
6	Glucose-6-phosphate dehydrogenase plays a central role in the response of tomato (<i>Solanum</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547. <i>Plant Physiology</i> , 2006, 141, 79-89.	2.8	85
7	Parallel proton fire hose instability in the expanding solar wind: Hybrid simulations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	79
8	Improving Plant Water Use Efficiency through Molecular Genetics. <i>Horticulturae</i> , 2017, 3, 31.	1.2	73
9	Solar Wind Turbulent Cascade from MHD to Sub-ion Scales: Large-size 3D Hybrid Particle-in-cell Simulations. <i>Astrophysical Journal</i> , 2018, 853, 26.	1.6	69
10	Signatures of kinetic instabilities in the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2771-2782.	0.8	68
11	Whole-genome re-sequencing of two Italian tomato landraces reveals sequence variations in genes associated with stress tolerance, fruit quality and long shelf-life traits. <i>DNA Research</i> , 2018, 25, 149-160.	1.5	68
12	PLASMA BETA DEPENDENCE OF THE ION-SCALE SPECTRAL BREAK OF SOLAR WIND TURBULENCE: HIGH-RESOLUTION 2D HYBRID SIMULATIONS. <i>Astrophysical Journal</i> , 2016, 833, 91.	1.6	65
13	Kinetics of parametric instabilities of Alfvén waves: Evolution of ion distribution functions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	58
14	Scattering of strahl electrons in the solar wind between 0.3 and 1 au: Helios observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3404-3414.	1.6	58
15	SOLAR WIND TURBULENCE FROM MHD TO SUB-ION SCALES: HIGH-RESOLUTION HYBRID SIMULATIONS. <i>Astrophysical Journal Letters</i> , 2015, 804, L39.	3.0	57
16	ON THE COMPETITION BETWEEN RADIAL EXPANSION AND COULOMB COLLISIONS IN SHAPING THE ELECTRON VELOCITY DISTRIBUTION FUNCTION: KINETIC SIMULATIONS. <i>Astrophysical Journal</i> , 2012, 760, 143.	1.6	56
17	Fast reconnection in relativistic plasmas: the magnetohydrodynamics tearing instability revisited. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3753-3765.	1.6	56
18	von Kármán–Howarth Equation for Hall Magnetohydrodynamics: Hybrid Simulations. <i>Astrophysical Journal Letters</i> , 2018, 857, L19.	3.0	55

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19	RESISTIVE MAGNETOHYDRODYNAMICS SIMULATIONS OF THE IDEAL TEARING MODE. <i>Astrophysical Journal</i> , 2015, 806, 131.	1.6	54
20	Heliospheric magnetic field polarity inversions driven by radial velocity field structures. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	50
21	Can Hall Magnetohydrodynamics Explain Plasma Turbulence at Sub-ion Scales?. <i>Astrophysical Journal</i> , 2019, 870, 52.	1.6	49
22	On the temperature profile and heat flux in the solar corona: Kinetic simulations. <i>Astronomy and Astrophysics</i> , 2001, 372, 686-701.	2.1	48
23	A New Minimally Invasive Mesotherapy Technique for Facial Rejuvenation. <i>Dermatology and Therapy</i> , 2013, 3, 83-93.	1.4	47
24	Parametric decay of linearly polarized shear Alfvén waves in oblique propagation: One and two-dimensional hybrid simulations. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	46
25	ANISOTROPY OF THIRD-ORDER STRUCTURE FUNCTIONS IN MHD TURBULENCE. <i>Astrophysical Journal</i> , 2015, 804, 119.	1.6	45
26	PLASMA TURBULENCE AND KINETIC INSTABILITIES AT ION SCALES IN THE EXPANDING SOLAR WIND. <i>Astrophysical Journal Letters</i> , 2015, 811, L32.	3.0	43
27	<i>In Situ</i> Observation of Hall Magnetohydrodynamic Cascade in Space Plasma. <i>Physical Review Letters</i> , 2020, 124, 225101.	2.9	43
28	Acceleration of Weakly Collisional Solar-Type Winds. <i>Astrophysical Journal</i> , 2005, 626, L117-L120.	1.6	41
29	Alfvén Waves and Shock Wave Formation at an X-Point Magnetic Field Configuration. <i>Astrophysical Journal</i> , 2005, 624, 392-401.	1.6	40
30	Expression and characterization of a cytosolic glucose 6 phosphate dehydrogenase isoform from barley (<i>Hordeum vulgare</i>) roots. <i>Protein Expression and Purification</i> , 2015, 112, 8-14.	0.6	39
31	Parametric decay of parallel and oblique Alfvén waves in the expanding solar wind. <i>Journal of Plasma Physics</i> , 2015, 81, .	0.7	35
32	“Ideally” unstable current sheets and the triggering of fast magnetic reconnection. <i>Journal of Plasma Physics</i> , 2016, 82, .	0.7	35
33	Plasma turbulence at ion scales: a comparison between particle in cell and Eulerian hybrid-kinetic approaches. <i>Journal of Plasma Physics</i> , 2017, 83, .	0.7	34
34	Coronal Electron Temperature Inferred from the Strahl Electrons in the Inner Heliosphere: Parker Solar Probe and Helios Observations. <i>Astrophysical Journal</i> , 2020, 892, 88.	1.6	34
35	In-field study on traditional Italian tomato landraces: The constitutive activation of the ROS scavenging machinery reduces effects of drought stress. <i>Plant Physiology and Biochemistry</i> , 2017, 118, 150-160.	2.8	32
36	Low-Level Laser Therapy and Vibration Therapy for the Treatment of Localized Adiposity and Fibrous Cellulite. <i>Dermatology and Therapy</i> , 2013, 3, 41-52.	1.4	31

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37	Nitrate Uptake Affects Cell Wall Synthesis and Modeling. <i>Frontiers in Plant Science</i> , 2017, 8, 1376.	1.7	28
38	Different Roles of Heat Shock Proteins (70 kDa) During Abiotic Stresses in Barley (<i>Hordeum vulgare</i>) Genotypes. <i>Plants</i> , 2019, 8, 248.	1.6	27
39	Three-dimensional simulations of compressible tearing instability. <i>Physics of Plasmas</i> , 2008, 15, .	0.7	26
40	ELECTRON HEAT FLUX IN THE SOLAR WIND: ARE WE OBSERVING THE COLLISIONAL LIMIT IN THE 1 AU DATA?. <i>Astrophysical Journal Letters</i> , 2014, 790, L12.	3.0	25
41	Mirror Instability in the Turbulent Solar Wind. <i>Astrophysical Journal</i> , 2017, 838, 158.	1.6	25
42	PROTON TEMPERATURE ANISOTROPY AND MAGNETIC RECONNECTION IN THE SOLAR WIND: EFFECTS OF KINETIC INSTABILITIES ON CURRENT SHEET STABILITY. <i>Astrophysical Journal</i> , 2013, 763, 142.	1.6	24
43	Annual outdoor cultivation of the diatom <i>Thalassiosira weissflogii</i> : productivity, limits and perspectives. <i>Algal Research</i> , 2019, 42, 101553.	2.4	24
44	FIRE HOSE INSTABILITY DRIVEN BY ALPHA PARTICLE TEMPERATURE ANISOTROPY. <i>Astrophysical Journal</i> , 2015, 812, 13.	1.6	22
45	Tearing and Kelvin-Helmholtz instabilities in the heliospheric plasma. <i>Astronomy and Astrophysics</i> , 2006, 452, 321-330.	2.1	21
46	Salinity and ABA Seed Responses in Pepper: Expression and Interaction of ABA Core Signaling Components. <i>Frontiers in Plant Science</i> , 2019, 10, 304.	1.7	20
47	On the unconstrained expansion of a spherical plasma cloud turning collisionless: case of a cloud generated by a nanometre dust grain impact on an uncharged target in space. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 045005.	0.9	19
48	Three-dimensional simulations of solar wind turbulence with the hybrid code CAMELIA. <i>Journal of Physics: Conference Series</i> , 2018, 1031, 012002.	0.3	19
49	Early responses to cadmium exposure in barley plants: effects on biometric and physiological parameters. <i>Acta Physiologiae Plantarum</i> , 2018, 40, 1.	1.0	19
50	Impact of Nitrogen Nutrition on <i>Cannabis sativa</i> : An Update on the Current Knowledge and Future Prospects. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5803.	1.8	19
51	Turbulence versus Fire-hose Instabilities: 3D Hybrid Expanding Box Simulations. <i>Astrophysical Journal</i> , 2019, 883, 178.	1.6	18
52	Autotrophic vs. Heterotrophic Cultivation of the Marine Diatom <i>Cyclotella cryptica</i> for EPA Production. <i>Marine Drugs</i> , 2021, 19, 355.	2.2	18
53	Physiological and Molecular Osmotic Stress Responses in Three Durum Wheat (<i>Triticum Turgidum</i> ssp) Tj ETQq1 1 0,784314 rgBT /Over	1.3	17
54	Modeling MMS Observations at the Earth's Magnetopause with Hybrid Simulations of Alfvénic Turbulence. <i>Astrophysical Journal</i> , 2020, 898, 175.	1.6	17

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55	Fast Magnetic Reconnection: Secondary Tearing Instability and Role of the Hall Term. <i>Astrophysical Journal</i> , 2019, 885, 56.	1.6	16
56	Salt Stress Induces Differentiated Nitrogen Uptake and Antioxidant Responses in Two Contrasting Barley Landraces from MENA Region. <i>Agronomy</i> , 2020, 10, 1426.	1.3	14
57	Ambipolar Electric Field and Potential in the Solar Wind Estimated from Electron Velocity Distribution Functions. <i>Astrophysical Journal</i> , 2021, 921, 83.	1.6	14
58	Three-dimensional evolution of magnetic and velocity shear driven instabilities in a compressible magnetized jet. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	13
59	Patatin-like lipolytic acyl hydrolases and galactolipid metabolism in marine diatoms of the genus <i>Pseudo-nitzschia</i> . <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 181-190.	1.2	13
60	Fermentation of Biodegradable Organic Waste by the Family Thermotogaceae. <i>Resources</i> , 2021, 10, 34.	1.6	13
61	Capnophilic Lactic Fermentation from <i>Thermotoga neapolitana</i> : A Resourceful Pathway to Obtain Almost Enantiopure L-lactic Acid. <i>Fermentation</i> , 2019, 5, 34.	1.4	12
62	Multidimensional Iterative Filtering: a new approach for investigating plasma turbulence in numerical simulations. <i>Journal of Plasma Physics</i> , 2020, 86, .	0.7	12
63	Spectral Transfer and K_{\parallel} Howarth's Monin Equations for Compressible Hall Magnetohydrodynamics. <i>Astrophysical Journal</i> , 2021, 917, 101.	1.6	12
64	The <i>ideal</i> tearing mode: theory and resistive MHD simulations. <i>Journal of Physics: Conference Series</i> , 2016, 719, 012016.	0.3	11
65	Three-dimensional local anisotropy of velocity fluctuations in the solar wind. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3006-3018.	1.6	10
66	Two-dimensional hybrid simulations of kinetic plasma turbulence: Current and vorticity vs proton temperature. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	9
67	Spacetime Hall-MHD Turbulence at Sub-ion Scales: Structures or Waves?. <i>Astrophysical Journal Letters</i> , 2021, 917, L12.	3.0	9
68	Ion-scale Transition of Plasma Turbulence: Pressure's Strain Effect. <i>Astrophysical Journal</i> , 2022, 930, 48.	1.6	9
69	Variation of Grain Yield, Grain Protein Content and Nitrogen Use Efficiency Components under Different Nitrogen Rates in Mediterranean Durum Wheat Genotypes. <i>Agriculture (Switzerland)</i> , 2022, 12, 916.	1.4	9
70	Three-Dimensional Simulations of Magnetic Reconnection with or Without Velocity Shears. <i>Space Science Reviews</i> , 2012, 172, 253-269.	3.7	8
71	Mechanism(s) of action of heavy metals to investigate the regulation of plastidic glucose-6-phosphate dehydrogenase. <i>Scientific Reports</i> , 2018, 8, 13481.	1.6	8
72	Advanced Applications for Protein and Compounds from Microalgae. <i>Plants</i> , 2021, 10, 1686.	1.6	8

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73	Different G6PDH isoforms show specific roles in acclimation to cold stress at various growth stages of barley (<i>Hordeum vulgare</i>) and <i>Arabidopsis thaliana</i> . <i>Plant Physiology and Biochemistry</i> , 2021, 169, 190-202.	2.8	8
74	Radial Evolution of the Electron Velocity Distribution in the Heliosphere: Role of Collisions. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	6
75	Nitrogen assimilation under different nitrate nutrition in Tunisian durum wheat landraces and improved genotypes. <i>Plant Biosystems</i> , 2020, 154, 924-934.	0.8	6
76	The telescope and the double Fabry-Pérot interferometer for the ADAHELI solar space mission. , 2010, , .		5
77	Activation of MHD reconnection on ideal timescales. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014052.	0.9	5
78	Fast magnetic reconnection: The <i>ideal</i> tearing instability in classic, Hall, and relativistic plasmas.. <i>Journal of Physics: Conference Series</i> , 2018, 1031, 012020.	0.3	5
79	Bioinformatic Characterization of Sulfotransferase Provides New Insights for the Exploitation of Sulfated Polysaccharides in <i>Caulerpa</i> . <i>International Journal of Molecular Sciences</i> , 2020, 21, 6681.	1.8	5
80	A Simulation Method for Semicollisional Plasmas. <i>Astrophysics and Space Science</i> , 2001, 277, 149-152.	0.5	4
81	On the role of wave-particle interactions in the evolution of solar wind ion distribution functions. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	4
82	Scale dependence and cross-scale transfer of kinetic energy in compressible hydrodynamic turbulence at moderate Reynolds numbers. <i>Physical Review Fluids</i> , 2021, 6, .	1.0	4
83	Improvement of CO ₂ and Acetate Coupling into Lactic Acid by Genetic Manipulation of the Hyperthermophilic Bacterium <i>Thermotoga neapolitana</i> . <i>Microorganisms</i> , 2021, 9, 1688.	1.6	4
84	Wild and Traditional Barley Genomic Resources as a Tool for Abiotic Stress Tolerance and Biotic Relations. <i>Agriculture (Switzerland)</i> , 2021, 11, 1102.	1.4	4
85	Properties of Hall-MHD Turbulence at Sub-Ion Scales: Spectral Transfer Analysis. <i>Atmosphere</i> , 2021, 12, 1632.	1.0	4
86	Sub-structure formation in starless cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 474, 1288-1295.	1.6	3
87	Species segregation in one-dimensional granular-system simulations. <i>European Physical Journal E</i> , 2008, 25, 201-212.	0.7	1
88	Parametric decay of large-amplitude Alfvén waves: MHD and hybrid simulations. , 2012, , .		1
89	Magnetic and Velocity Shear Driven Instabilities in the Heliospheric Plasma. <i>Earth, Moon and Planets</i> , 2009, 104, 135-137.	0.3	0
90	Proton temperature anisotropy and current sheet stability: 2-D hybrid simulations. , 2013, , .		0

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91	Ion Kinetics in the Solar Wind: Coupling Global Expansion to Local Microphysics. Space Sciences Series of ISSI, 2011, , 373-396.	0.0	0