

Nour E Raouafi

List of Publications by Year in descending order

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71
papers

4,102
citations

126907

33
h-index

114465

63
g-index

73
all docs

73
docs citations

73
times ranked

2200
citing authors

#	ARTICLE	IF	CITATIONS
1	The Solar Probe Plus Mission: Humanity's First Visit to Our Star. <i>Space Science Reviews</i> , 2016, 204, 7-48.	8.1	821
2	Highly structured slow solar wind emerging from an equatorial coronal hole. <i>Nature</i> , 2019, 576, 237-242.	27.8	401
3	Alfvénic velocity spikes and rotational flows in the near-Sun solar wind. <i>Nature</i> , 2019, 576, 228-231.	27.8	311
4	Solar Coronal Jets: Observations, Theory, and Modeling. <i>Space Science Reviews</i> , 2016, 201, 1-53.	8.1	256
5	Sharp Alfvénic Impulses in the Near-Sun Solar Wind. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 45.	7.7	115
6	Computer Vision for the Solar Dynamics Observatory (SDO). <i>Solar Physics</i> , 2012, 275, 79-113.	2.5	108
7	Parker Solar Probe Enters the Magnetically Dominated Solar Corona. <i>Physical Review Letters</i> , 2021, 127, 255101.	7.8	104
8	Far-Ultraviolet Spectra of Fast Coronal Mass Ejections Associated with X-Class Flares. <i>Astrophysical Journal</i> , 2003, 597, 1106-1117.	4.5	94
9	Near-Sun observations of an F-corona decrease and K-corona fine structure. <i>Nature</i> , 2019, 576, 232-236.	27.8	84
10	THE SOLAR ENERGETIC PARTICLE EVENT ON 2013 APRIL 11: AN INVESTIGATION OF ITS SOLAR ORIGIN AND LONGITUDINAL SPREAD. <i>Astrophysical Journal</i> , 2014, 797, 8.	4.5	76
11	ROLE OF TRANSIENTS IN THE SUSTAINABILITY OF SOLAR CORONAL PLUMES. <i>Astrophysical Journal</i> , 2014, 787, 118.	4.5	74
12	LONGITUDINAL PROPERTIES OF A WIDESPREAD SOLAR ENERGETIC PARTICLE EVENT ON 2014 FEBRUARY 25: EVOLUTION OF THE ASSOCIATED CME SHOCK. <i>Astrophysical Journal</i> , 2016, 819, 72.	4.5	72
13	The Solar Orbiter Science Activity Plan. <i>Astronomy and Astrophysics</i> , 2020, 642, A3.	5.1	67
14	Evidence for Polar Jets as Precursors of Polar Plume Formation. <i>Astrophysical Journal</i> , 2008, 682, L137-L140.	4.5	66
15	Parker Solar Probe In Situ Observations of Magnetic Reconnection Exhausts during Encounter 1. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 34.	7.7	65
16	THE MAGNETIC ENERGY-HELICITY DIAGRAM OF SOLAR ACTIVE REGIONS. <i>Astrophysical Journal Letters</i> , 2012, 759, L4.	8.3	64
17	Element Abundances: A New Diagnostic for the Solar Wind. <i>Astrophysical Journal</i> , 2019, 879, 124.	4.5	62
18	Morphology, dynamics and plasma parameters of plumes and inter-plume regions in solar coronal holes. <i>Astronomy and Astrophysics Review</i> , 2011, 19, 1.	25.5	60

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19	Enhanced Energy Transfer Rate in Solar Wind Turbulence Observed near the Sun from Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 48.	7.7	56
20	MAGNETIC ENERGY AND HELICITY BUDGETS IN THE ACTIVE-REGION SOLAR CORONA. II. NONLINEAR FORCE-FREE APPROXIMATION. <i>Astrophysical Journal</i> , 2012, 759, 1.	4.5	55
21	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 37.	7.7	52
22	MICRO-SIGMOIDS AS PROGENITORS OF CORONAL JETS: IS ERUPTIVE ACTIVITY SELF-SIMILARLY MULTI-SCALED?. <i>Astrophysical Journal</i> , 2010, 718, 981-987.	4.5	51
23	Measures of Scale-dependent Alfvénicity in the First Parker Solar Probe Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 58.	7.7	51
24	The Solar Energetic Particle Event of 2010 August 14: Connectivity with the Solar Source Inferred from Multiple Spacecraft Observations and Modeling. <i>Astrophysical Journal</i> , 2017, 838, 51.	4.5	45
25	Localized Magnetic-field Structures and Their Boundaries in the Near-Sun Solar Wind from Parker Solar Probe Measurements. <i>Astrophysical Journal</i> , 2020, 893, 93.	4.5	44
26	Solar Wind Streams and Stream Interaction Regions Observed by the Parker Solar Probe with Corresponding Observations at 1 au. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 36.	7.7	43
27	Enhanced proton parallel temperature inside patches of switchbacks in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L1.	5.1	43
28	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probe's First Orbit. <i>Astrophysical Journal Letters</i> , 2020, 894, L19.	8.3	39
29	First nonlinear force-free field extrapolations of SOLIS/VSM data. <i>Astronomy and Astrophysics</i> , 2008, 488, L71-L74.	5.1	38
30	Clustering of Intermittent Magnetic and Flow Structures near Parker Solar Probe's First Perihelion: A Partial-variance-of-increments Analysis. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 31.	7.7	37
31	Understanding the origins of the heliosphere: integrating observations and measurements from Parker Solar Probe, Solar Orbiter, and other space- and ground-based observatories. <i>Astronomy and Astrophysics</i> , 2020, 642, A4.	5.1	35
32	Solar magnetism explorer (SolmeX). <i>Experimental Astronomy</i> , 2012, 33, 271-303.	3.7	34
33	Analysis of the Internal Structure of the Streamer Blowout Observed by the Parker Solar Probe During the First Solar Encounter. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 63.	7.7	34
34	Properties of Solar Polar Coronal Plumes Constrained by Ultraviolet Coronagraph Spectrometer Data. <i>Astrophysical Journal</i> , 2007, 658, 643-656.	4.5	33
35	Turbulence Characteristics of Switchback and Nonswitchback Intervals Observed by Parker Solar Probe. <i>Astrophysical Journal Letters</i> , 2020, 904, L30.	8.3	31
36	On the Link between the Release of Solar Energetic Particles Measured at Widespread Heliolongitudes and the Properties of the Associated Coronal Shocks. <i>Astrophysical Journal</i> , 2017, 847, 103.	4.5	30

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37	On the relationship between coronal waves associated with a CME on 5 March 2000. <i>Astronomy and Astrophysics</i> , 2007, 473, 951-957.	5.1	30
38	Effect of the electron density stratification on off-limb O VI line profiles: How large is the velocity distribution anisotropy in the solar corona?. <i>Astronomy and Astrophysics</i> , 2004, 427, 725-733.	5.1	29
39	Linear polarization of the $\text{Si IV } \lambda 1031.92$ coronal line. <i>Astronomy and Astrophysics</i> , 2002, 396, 1019-1028.	5.1	28
40	Applicability of Taylor's hypothesis during Parker Solar Probe perihelia. <i>Astronomy and Astrophysics</i> , 2021, 650, A22.	5.1	27
41	Observations of Heating along Intermittent Structures in the Inner Heliosphere from PSP Data. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 46.	7.7	26
42	Diagnostics of Coronal Magnetic Fields through the Hanle Effect in UV and IR Lines. <i>Frontiers in Astronomy and Space Sciences</i> , 2016, 3, .	2.8	25
43	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 61.	7.7	25
44	Sensitivity of solar off-limb line profiles to electron density stratification and the velocity distribution anisotropy. <i>Astronomy and Astrophysics</i> , 2006, 445, 735-745.	5.1	21
45	Modeling the Early Evolution of a Slow Coronal Mass Ejection Imaged by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 72.	7.7	21
46	Detailed Imaging of Coronal Rays with the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 60.	7.7	21
47	A living catalog of stream interaction regions in the Parker Solar Probe era. <i>Astronomy and Astrophysics</i> , 2021, 650, A25.	5.1	17
48	Linear polarization of the $\text{Si IV } \lambda 1031.92$ coronal line. <i>Astronomy and Astrophysics</i> , 2002, 390, 691-706.	5.1	17
49	Latitude Distribution of Polar Magnetic Flux in the Chromosphere Near Solar Minimum. <i>Astrophysical Journal</i> , 2007, 669, 636-641.	4.5	17
50	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREO. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091376.	4.0	16
51	Quasi-periodic Energy Release and Jets at the Base of Solar Coronal Plumes. <i>Astrophysical Journal</i> , 2022, 933, 21.	4.5	16
52	Shock wave driven by an expanding system of loops. <i>Astronomy and Astrophysics</i> , 2004, 424, 1039-1048.	5.1	14
53	Effect of anisotropic velocity distribution on the linear polarization of coronal lines. <i>Astronomy and Astrophysics</i> , 2003, 412, 271-280.	5.1	13
54	Parker Solar Probe Imaging of the Night Side of Venus. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	12

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55	OBSERVATIONAL EVIDENCE FOR CORONAL TWISTED FLUX ROPE. <i>Astrophysical Journal</i> , 2009, 691, L128-L132.	4.5	11
56	Kineticâ€Scale Turbulence in the Venusian Magnetosheath. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090783.	4.0	11
57	Stokes parameters of resonance lines scattered by a moving, magnetic medium. <i>Astronomy and Astrophysics</i> , 2002, 386, 721-731.	5.1	11
58	BepiColomboâ€™s Cruise Phase: Unique Opportunity for Synergistic Observations. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	10
59	The Tilted Solar Dipole as Observed and Modeled during the 1996 Solar Minimum. <i>Astrophysical Journal</i> , 2008, 682, 1306-1314.	4.5	5
60	Doppler redistribution of anisotropic radiation and resonance polarization in moving scattering media. <i>Astronomy and Astrophysics</i> , 2006, 445, 681-692.	5.1	4
61	Dynamics of HVECs emitted from comet C/2011â€L4 as observed by STEREO. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5329-5340.	2.4	4
62	Nonâ€Detection of Lightning During the Second Parker Solar Probe Venus Gravity Assist. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091751.	4.0	4
63	Probing Upflowing Regions in the Quiet Sun and Coronal Holes. <i>Solar Physics</i> , 2021, 296, 175.	2.5	4
64	Features of Magnetic Field Switchbacks in Relation to the Local-field Geometry of Large-amplitude AlfvÃ©nic Oscillations: Wind and PSP Observations. <i>Astrophysical Journal Letters</i> , 2022, 932, L13.	8.3	4
65	Plasma dynamics in the polar coronal plumes. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 193.	0.0	1
66	Does the ion cyclotron exist in the inner corona?. <i>Astronomische Nachrichten</i> , 2003, 324, 341-343.	1.2	0
67	Effect of the electron density stratification on the off-limb O VI line profiles. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 481-482.	0.0	0
68	Shock Wave Driven by an Expanding System of Loops. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 127-128.	0.0	0
69	How reliable are the large temperature anisotropies in polar coronal holes?. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 185.	0.0	0
70	Synthesis, spectroscopic and structural studies of N-(1H-benzimidazol-2-yl)-Nâ€2-benzyl propionamide. <i>Journal of Chemical Crystallography</i> , 2007, 37, 381-386.	1.1	0
71	Stokes parameters of resonance lines scattered by a moving, magnetic medium. <i>Astronomy and Astrophysics</i> , 2002, 394, 747-747.	5.1	0