

SUBJECT INDEX

- Alfvén
 - Velocity 434, 438, 487
 - Sub-Alfvénic Velocities 444
 - Waves 139, 140, 141, 143, 144, 468, 495, 500, 501, 509
- Anomalous Helium Intensities 369
- Antenna Arrays 403
- Antenna Systems 403
- Arch Filament Systems 213
- Azimuthal Angles 368, 477
- Azimuthal Field 477, 479
- Axisymmetric Waves 139

- Bessel Function Field 280
- Bipolar Arches 287

- Ca Plage Area Index 163
- Carrington Rotations 178
- Causitive Flare 396
- Chromospheric Plages 33
- Chromospheric
 - Shock Waves 548
- Chromospheric Flares 317, 427
- Chromospheric Flare Ribbons 221
- Closed Field Structure 548
- Closed Magnetic Structure 10, 98
- Codacon Detector System 375
- Compact Microwave Sources 34, 35
- Conductive Flux 127, 128
- Corona 55, 88, 91, 95, 99, 127, 128, 139, 141, 169, 173, 174, 177, 179, 183, 185, 195, 229, 230, 231, 251, 252, 263, 265, 266, 268, 270, 271, 272, 291, 307, 310, 313, 314, 315, 317, 319, 323, 333, 335, 336, 340, 341, 343, 346, 357, 380, 425, 426, 427, 434, 439, 444, 445, 449, 450, 452, 453, 459, 487, 488, 499, 501, 503, 504, 505, 527, 529, 542, 543, 547, 549, 551, 552
 - Green 51, 52, 89, 90, 94, 96, 98, 99, 101
 - Inner 376, 536, 537
 - Low 189, 242, 323, 333, 349, 415, 427, 435, 439, 443, 487, 488
 - Mission 534
 - Outer 393, 527, 534
 - Upper 439
- Coronagraph 55, 56, 179, 245, 246, 247, 263, 333, 336, 343, 344, 347, 393, 394, 396, 413, 415, 445, 527
- Coronal
 - Cycle
 - Dynamics 417
 - Emission 100
 - High-Speed Stream 499
 - Holes 6, 7, 12, 13, 37, 38, 39, 40, 41, 42, 49, 50, 51, 52, 83, 89, 97, 102, 103, 149, 199, 376, 400, 413, 415, 417, 499, 523, 527, 548, 549,
 - Line 49, 376
 - Loop 476, 479
 - Magnetic Activity 241
 - Magnetic Loop 483
 - Mass Ejection Event 475, 476
 - Plasma 98, 189, 272, 380, 427
 - Rotation 95, 96, 97
 - Streamers 37, 56, 174, 479, 483, 484
 - Structures 96
 - Transients 57, 174, 175, 179, 182, 185, 245, 247, 263, 265, 266, 271, 275, 317, 318, 333, 340, 345, 347, 348, 413, 417, 427, 428, 446, 475, 483, 484, 485, 495, 549, 550, 551
- Cosmic Ray 79, 80, 81, 82, 83, 400, 527

- Decametric Waves 400
- Dipolar Field 169, 170, 171, 435, 436, 487
- Disparition Brusgues 178, 221
- Doppler Shifts 203, 541
- Dynamical Motion 29, 30

- Dynamo Theory 286
- Earth-Sun Line 527
- Ecliptic Plane 10, 153
- Electromagnetic
- Field 2, 467
 - Ion Cyclotron Instability 467, 509
 - Turbulence 451, 471
 - Waves 471
- Electron Acceleration 299
- Plasma Frequency 300
- Electrostatic
- Activity 471
 - Field 463
 - Interactions 465
 - Waves 469
- Elementary Flare Bursts 427, 491
- Emission
- Chromospheric 317
 - Gyrosynchrotron 35, 337, 381, 384
 - Radio 184
 - Solar Microwave 33, 34
 - X-Ray 415, 548
- Energetic Electron Spectrum 227, 229
- Energy Flux 195, 427
- Equatorial
- Field 16
 - Holes 102
 - Plane 446
- EUV Emission Lines 375, 376
- Evershed Motions 307
- Faraday's Law of Induction 504
- Faraday Rotation 475, 476, 477, 478
- Field Lines 13, 288, 289, 291, 293, 303, 305, 318, 319, 430, 431, 435, 436, 485, 489, 497, 515
- Filaments 295, 317, 339, 413, 415, 417, 427, 549
- Condensation 297
 - Eruptions 203, 413, 414
 - Knife-Blade 295
 - Monotonic 296
 - Polar Crown 387
 - Pre-flare 317
 - Quiescent 213
 - Solar 413
- First Stage Acceleration 299
- Flare Energy 231, 232
- Sprays 173, 174, 176, 177, 179, 180, 185, 337, 427, 446, 497
 - Waves 175
- Flux Bundles 30
- Fibers 30
 - Tubes 29, 196, 231, 232, 291, 292, 293, 445, 476, 477, 478, 479, 548, 551
- Galactic Equator 167, 169
- Gasdynamic 448
- Geoactivity 49
- Geomagnetic AA Index 163
- Fluctuations 413
 - Storm 413, 417, 516, 523
 - Tail 514, 518
- Geospace
- Components 509, 512
 - System 508, 509, 511, 515, 518, 520
- Gyrosynchrotron Radiation 245, 475
- H α Intensity Fluctuations 215
- Harmonic
- Extrapolation 12
 - Plasma Radiation 340
- Helical
- Field 267, 476, 477
 - Structure 335
 - Symmetry 279, 280
 - Transient Field 478
- Heliocentric
- Distance 147, 148, 152, 153, 155, 167, 357, 358, 365, 368, 370, 410
 - Sphere 504
- Heliographic Longitude 396
- Heliomagnetic Equator 7
- Heliopause 159, 160
- Helios 541, 542
- Heliosphere 519, 523, 524, 536, 547, 551
- Heliospheric
- Dynamics 520
 - Parameters 159
 - Physics 523
- Helium Ions 157

- Helium Ions 157
- Helmet Streamers 10, 13, 269, 323, 449, 483
- Hydrodynamic
- Flows 425, 429
 - Response 443, 444, 453, 483, 491
- Hydromagnetic Turbulence 143
- Hydrostatic Equilibrium 263, 444
- Impulsive Kernels 220
- Inhomogeneities 79
- International Solar Polar Mission 526
- Interplanetary
- Dust 155
 - Dynamics 451, 507, 547,
 - Ion Sound Waves 365
 - Magnetic Flux 10
 - Mass Flux 303
 - Medium 3, 16, 87, 88, 127, 174, 183, 245, 357, 367, 405, 452, 459, 460, 504, 547, 549
 - Polarity Boundaries 10
 - Scintillation 405, 409
 - Sectors 9, 10, 11
 - Shock Waves 334, 338, 344, 347
 - Streams 421
- Interstellar
- Gas 159
 - Hydrogen Atoms 159
 - Hydrogen Density 160
 - Medium 81, 82, 504
- Inversion Lines 295
- Ion
- Acoustic Waves 135
 - Chamber 80, 81
- Ionosphere 519, 529
- Ionospheric Acceleration 512
- Isogauss Surface 14
- Kinetic
- Energy Fluxes 232
 - Theory 452
- Laboratory
- Equatorial Magnetosphere 512, 519
 - Geomagnetic Tail 511, 519
 - Interplanetary Physics 511, 519
 - Interplanetary Plasma 529, 537
 - Jet Propulsion 535
 - Polar Plasma 511, 519
- Langmuir Waves 135, 299
- Lax-Wendroff Treatment 506
- Linear Couplings 131
- Longitudinal Field 267
- Loops
- Flare 189, 219, 221, 317, 318
 - Flux 192
 - Legs 426
 - Prominence 431, 446
 - Transients 267, 268, 338, 348, 476, 479
 - Magnetic 175
 - Post Flare 217
 - White Light 245, 347, 445
 - X-Ray 317
- Magnetic
- Arcades 10
 - Arches 174, 335
- Magnetic Fields
- Ambient 185
 - Closed 272, 483
 - Equilibrium 295
 - Force Free 283, 284, 286, 287, 288, 289, 291, 292, 293, 551
 - Galactic 167, 169, 170
 - Interplanetary 2, 3, 7, 10, 11, 79, 80, 167, 393, 505
 - Interstellar 82
 - Lines 103, 200, 242, 489
 - Longitudinal 268
 - Mean 4
 - Photospheric 4, 6, 51, 52, 87, 88, 89, 96, 102, 523, 549
 - Polarity 400
 - Sheared 295, 297, 551
 - Solar 1, 2, 3, 6, 7, 11, 16, 89, 90, 96, 287
 - Transient 476
 - Transverse 446
 - Weak Polar 527
 - Weak Solar 6
- Magnetic
- Flux 196, 223, 268, 270, 291, 430, 434, 438, 504
 - Lines 174
 - Polarity Patterns 6, 339
 - Topology 252
 - Tube 307, 310
- Magnetograms 89

- Magnetohydrodynamic 11, 14, 16,
 139, 140, 143, 144, 145, 271,
 364, 443, 444, 447, 448, 453,
 550
 - Disturbances 446
 - Waves 323
 Magnetopause 513, 521
 Magnetoplasma 304
 Magnetosphere 82, 394, 515, 519,
 520, 521, 525, 529
 Magnetospheric
 - Physics 515
 - System 512
 Magnetospheric Disturbances 421
 Magnetostatic
 - Equilibrium 285
 - Field 286
 Mean Field Measurements 6, 10
 Meridional Plane 271
 Microwave Bursts 223, 224
 - Radar 135
 Model
 - Current Sheet 1, 13, 14, 427,
 431, 432, 433, 434, 435, 436,
 437, 438, 487, 549
 - Flare 303
 - Hybrid 460, 471, 472, 515
 - Magnetospheric 79
 - Melon Seed 196
 - Reconnection 241
 - Siphon Flow 307, 308
 Momentum Flux Densities 151, 152
 Monochromatic Corona 88
 Moreton Waves 304

 Neptune 163, 164
 Network 199, 200, 201
 Neutral lines 505
 Neutral Sheets 13, 192, 303, 304,
 323, 324, 325, 509, 549
 Neutron Intensity 81, 82
 Neutron Monitor 80, 81

 Observatories
 - Algonquin Radio 33, 35
 - Crimean Astrophysical 4
 - Lowell 163
 - Mount Wilson 89
 - Ottawa River Solar 33, 35
 Obstruction 79
 Open Field Lines 10, 11, 446, 484

 Phenomenological Parameters 299
 Photoionization Rate 156
 Photon Flux 537
 Photospheric
 - Disk 389
 - Flux 270
 - Dipole 14
 - Neutral Lines 10
 - Polarity Pattern 6
 - Sector Pattern 6, 7
 - Structure 4
 Planetary Variations 163
 Plasma
 - Ambient 224
 - Anisotropic 466
 - Beta 252, 284, 286, 483
 - Cloud 179, 550, 551
 - Densities 384
 - Ejections 426
 - Emission 384
 - Field 12, 16, 499
 - Geospace 516
 - Interplanetary 145, 252
 - Level 40, 41
 - Magnetized 159, 465
 - Polar Magnetospheric 516
 - Mantle 515
 - Sheet 509, 510, 512, 514
 - Solar 413, 491
 - Streams 49
 - Waves 535, 551
 Polar
 - Caps 528
 - Cusps 509
 - Hole 40
 - Lines 506
 Polarity
 - Field 303, 304
 - Structure 5
 Polarity Patterns 9
 Poloidal Field 29
 Polytopic Index 483
 Pre-flare Phenomena 213
 Prominences 295
 - Active 339
 - Eruptive 181, 182, 183, 184, 185
 241, 263, 269, 270, 275, 293,
 333, 340, 344, 388, 415, 446,
 547, 550

Quasi-

- Equilibrium 459
 - Linear Theory 459
 - Linear Treatment 466
 - Static Evolution 283
 - Steady Sheet 434
- Quiet Sun 37
- Radio Bursts
- Type I 135, 338
 - Type II 301, 304, 334, 337, 343, 344
 - Type III 301, 379, 380
 - Type IV 319, 335, 340, 343, 344, 345, 381, 382, 383
- Radio
- Flux 163
 - Interferometric 174
 - Source 245
 - Transient 345, 550
- Rapid Pressure Pulse 271
- Recurrence Index 163
- Redshifts 200
- Reflectivity 131, 132
- Regions
- Active 6, 7, 12, 13, 51, 52, 105, 177, 178, 180, 232, 263, 305, 336, 340, 399, 425, 437, 548, 550, 551
 - Active Flaring 376
 - Bipolar Magnetic 1, 549
 - Closed-Field 483, 484, 485
 - Closed Magnetic 548
 - Cosmic Ray Modulation 393, 396
 - Elliptic 140
 - Ephemeral Active 6
 - Equatorial 102
 - Flare 304
 - Flux 34
 - Geospace 509
 - Hyperbolic 139, 140, 141
 - Intensity 50, 51
 - Open Field 2, 303, 500
 - Polar 499, 500, 543
 - Polarity 8, 10, 15, 92, 304
 - Semi-cylindrical 435
 - Solar 49, 399
 - Transition 307
 - Subsolar Magnetopause 512
 - Unipolar Magnetic 1, 2, 549
- Reverse Current 300
- Ring Current 509, 512, 516, 518
- Sector Structure 2, 3, 5
- Slowly Varying Component 33
- Solar
- Constant 524
 - Cycle 10, 80, 81, 82, 88, 91, 96, 103, 151, 182, 358, 413, 524, 529, 533, 537
 - Disc 4, 38, 55, 223, 251, 275, 375, 376
 - Dynamic Mission 534
 - Elongation 407, 409
 - Equatorial Plane 271, 476
 - Eruptions 547
 - Flux 163
 - Geophysical Data 359, 360
 - Interplanetary 2
 - Limb 389
 - Magnetic Arches
 - Magnetic Sectors 90
 - Maximum Mission 524, 525, 536
 - Meteorology 29
 - Modulation 80
 - Optical Telescope 532, 538
 - Origin 144
 - Photosphere 3
 - Physics 523, 550
 - Polar Field 80, 81
 - Polarity Sector 7, 8
 - Poles 527
 - Probe 535, 537
 - Radio Burst 174, 251, 257
 - Rotation 56, 139, 181, 358, 366, 370, 376
 - Space Mission 523
 - Terrestrial Dynamics 520
 - Terrestrial Plasma Chain 518
 - Terrestrial Physics 507
 - Wind Stream 394, 395
 - X-Ray Bursts 301
- Solwind 55, 56, 57, 387
- Source Surface 12, 13, 14, 15
- Spectroheliogram 55, 242, 376
- Spherical Solar Surface 503
- Spherical Source Surface 15
- Non-Spherical Source Surface 14, 16
- Spicules 199

Streamers 527
Subducted Interconnected Link 30
Subphotospheric Sun 504
Subsolar Magnetopause 512
Sunspot Belts 102
Sunspot Cycle 55, 79, 98, 102
Supergranular Boundaries 200
Sympathetic Flares 175
Synoptic Magnetograms 12
Systematic Flux Imbalance 6

Terrestrial

- Activity 520
- Magnetism 88

Thermal

- Bremsstrahlung 40
- Phase 303

Titan 163, 164

Topological Pumping 29, 30

Transition Zone 195, 242, 315

Transverse

- Kinetic Energy
- Waves 495, 497

Two Ribbon Flares 218, 219, 220,
317, 318

Unipolar Field 205

Upper Magnetic Arches 467

Van Der Laan Field 281

Weak Background Field 6

White Light

- Cloud 337, 344
- Data 476
- Transients 263, 271, 551

X-Ray

- Arches 426
- Bursts 338, 415, 427
- Spectrum 492, 493