

# Farzad Kamalabadi

## List of Publications by Year in descending order

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52  
papers

862  
citations

471509

17  
h-index

501196

28  
g-index

52  
all docs

52  
docs citations

52  
times ranked

945  
citing authors

#	ARTICLE	IF	CITATIONS
1	The first coordinated ground- and space-based optical observations of equatorial plasma bubbles. Geophysical Research Letters, 2003, 30, .	4.0	102
2	A Robust Null Space Method for Linear Equality Constrained State Estimation. IEEE Transactions on Signal Processing, 2010, 58, 3961-3971.	5.3	72
3	Determination of primary electron spectra from incoherent scatter radar measurements of the auroral region. Radio Science, 2005, 40, n/a-n/a.	1.6	61
4	QUANTITATIVE, THREE-DIMENSIONAL ANALYSIS OF THE GLOBAL CORONA WITH MULTI-SPACECRAFT DIFFERENTIAL EMISSION MEASURE TOMOGRAPHY. Astrophysical Journal, 2009, 701, 547-560.	4.5	47
5	3D Temperatures and Densities of the Solar Corona via Multi-Spacecraft EUV Tomography: Analysis of Prominence Cavities. Solar Physics, 2009, 256, 73-85.	2.5	45
6	Radiative transfer modeling of the OI 135.6 nm emission in the nighttime ionosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 10116-10135.	2.4	38
7	A statistical framework for space-based EUV ionospheric tomography. Radio Science, 1999, 34, 437-447.	1.6	37
8	Rotational Tomography For 3d Reconstruction Of The White-Light And Euv Corona In The Post-Soho Era. Solar Physics, 2005, 228, 219-237.	2.5	34
9	Three-dimensional Tomographic Analysis of a High-Cadence LASCO-C2 Polarized Brightness Sequence. Astrophysical Journal, 2007, 671, L201-L204.	4.5	32
10	Three-dimensional tomography of ionospheric variability using a dense GPS receiver array. Radio Science, 2008, 43, .	1.6	31
11	Tomographic Imaging of Dynamic Objects With the Ensemble Kalman Filter. IEEE Transactions on Image Processing, 2009, 18, 1573-1587.	9.8	28
12	Localized three-dimensional ionospheric tomography with GPS ground receiver measurements. Radio Science, 2007, 42, .	1.6	27
13	Modeling Geomagnetically Induced Currents From Magnetometer Measurements: Spatial Scale Assessed With Reference Measurements. Space Weather, 2017, 15, 1357-1372.	3.7	27
14	Tomographic studies of aeronomic phenomena using radio and UV techniques. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1573-1580.	1.6	25
15	On the variability of mesospheric OH emission profiles. Journal of Geophysical Research, 2007, 112, .	3.3	23
16	Inferring Nighttime Ionospheric Parameters with the Far Ultraviolet Imager Onboard the Ionospheric Connection Explorer. Space Science Reviews, 2018, 214, 1.	8.1	20
17	The Impact of Magnetic Field Temporal Sampling on Modeled Surface Electric Fields. Space Weather, 2018, 16, 1721-1739.	3.7	18
18	Dynamic Tomographic Imaging of the Solar Corona. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 755-766.	10.8	15

#	ARTICLE	IF	CITATIONS
19	Validation of Two MHD Models of the Solar Corona with Rotational Tomography. <i>Astrophysical Journal</i> , 2008, 682, 1328-1337.	4.5	15
20	An efficient near- $\epsilon$ -optimal approach to incoherent scatter radar parameter estimation. <i>Radio Science</i> , 2008, 43, .	1.6	13
21	Multidimensional image reconstruction in astronomy. <i>IEEE Signal Processing Magazine</i> , 2010, 27, 86-96.	5.6	13
22	High-resolution computational spectral imaging with photon sieves. , 2014, , .		13
23	Analytical Fresnel imaging models for photon sieves. <i>Optics Express</i> , 2018, 26, 32259.	3.4	12
24	High-Resolution Multi-Spectral Imaging With Diffractive Lenses and Learned Reconstruction. <i>IEEE Transactions on Computational Imaging</i> , 2021, 7, 489-504.	4.4	11
25	Blind Estimation for Localized Low Contrast-to-Noise Ratio BOLD Signals. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2008, 2, 879-890.	10.8	10
26	Optimal Sensor Array Configuration in Remote Image Formation. <i>IEEE Transactions on Image Processing</i> , 2008, 17, 155-166.	9.8	10
27	Asymptotic convergence of the ensemble Kalman filter. , 2008, , .		10
28	Tactile soft-sparse mean fluid-flow imaging with a robotic whisker array. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 046018.	2.9	10
29	Quantifying the inversion accuracy of simplified physical models for the nighttime OI 135.6Ånm emission. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5805-5814.	2.4	9
30	Image formation model for photon sieves. , 2013, , .		8
31	Uncertainties in extracted parameters of a Gaussian emission line profile with continuum background. <i>Applied Optics</i> , 2009, 48, 6913.	2.1	7
32	Tomographic imaging of airglow from airborne spectroscopic measurements. <i>Applied Optics</i> , 2008, 47, 2510.	2.1	5
33	A Parametric Estimation Approach to Instantaneous Spectral Imaging. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 5707-5721.	9.8	5
34	Computational Spectral and Ultrafast Imaging via Convex Optimization. , 2018, , 105-127.		5
35	Methods of deducing intrinsic measurements of high frequency atmospheric gravity waves (AGWs). , 2005, , .		3
36	Basis selection for wavelet processing of sparse signals. <i>Signal Processing</i> , 2008, 88, 2340-2345.	3.7	3

#	ARTICLE	IF	CITATIONS
37	Estimation of Three-Dimensional Atmospheric Wave Parameters From Ground-Based Spectroscopic Airglow Image Data. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2427-2435.	6.3	3
38	Cramer-Rao bounds and instrument optimization for slitless spectroscopy. , 2013, , .		3
39	Analytical precision limits in slitless spectroscopy. , 2012, , .		2
40	On resolution/error tradeoffs in incoherent scatter radar measurements. Radio Science, 2012, 47, .	1.6	2
41	Slitless Solar Imaging Spectroscopy. Astrophysical Journal, 2019, 883, 7.	4.5	2
42	Basis Selection for Wavelet Processing of Sparse Source Signals. , 2007, , .		1
43	Optimal dynamic tomography for wide-sense stationary spatial random fields. , 2009, , .		1
44	Parameter estimation for instantaneous spectral imaging. , 2014, , .		1
45	EFFICIENT RFI DETECTION IN RADIO ASTRONOMY BASED ON COMPRESSIVE STATISTICAL SENSING. , 2018, , .		1
46	Optimal Measurement Configuration In Computational Diffractive Imaging. , 2020, , .		1
47	Estimation of Linear Space-Invariant Dynamics. IEEE Signal Processing Letters, 2020, 27, 2154-2158.	3.6	1
48	Transform-Domain Penalized-Likelihood Filtering of Projection Data. , 2006, , .		0
49	Transform-domain penalized-likelihood filtering of tomographic data. International Journal of Imaging Systems and Technology, 2008, 18, 350-364.	4.1	0
50	2-D radio imaging of ionospheric electron density in the equatorial plane: Algorithms and results. , 2014, , .		0
51	Transformed Spiked Covariance Completion for Time Series Estimation. , 2018, , .		0
52	Linear Space-Invariant System Identification And Mismatch Bounds For Estimation Of Dynamical Images. , 2020, , .		0