

Farzad Kamalabadi

List of Publications by Year in descending order

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52
papers

862
citations

471509

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docs citations

52
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Resolution Multi-Spectral Imaging With Diffractive Lenses and Learned Reconstruction. IEEE Transactions on Computational Imaging, 2021, 7, 489-504.	4.4	11
2	Optimal Measurement Configuration In Computational Diffractive Imaging. , 2020, , .		1
3	Estimation of Linear Space-Invariant Dynamics. IEEE Signal Processing Letters, 2020, 27, 2154-2158.	3.6	1
4	Linear Space-Invariant System Identification And Mismatch Bounds For Estimation Of Dynamical Images. , 2020, , .		0
5	Slitless Solar Imaging Spectroscopy. Astrophysical Journal, 2019, 883, 7.	4.5	2
6	Inferring Nighttime Ionospheric Parameters with the Far Ultraviolet Imager Onboard the Ionospheric Connection Explorer. Space Science Reviews, 2018, 214, 1.	8.1	20
7	Computational Spectral and Ultrafast Imaging via Convex Optimization. , 2018, , 105-127.		5
8	EFFICIENT RFI DETECTION IN RADIO ASTRONOMY BASED ON COMPRESSIVE STATISTICAL SENSING. , 2018, , .		1
9	The Impact of Magnetic Field Temporal Sampling on Modeled Surface Electric Fields. Space Weather, 2018, 16, 1721-1739.	3.7	18
10	Transformed Spiked Covariance Completion for Time Series Estimation. , 2018, , .		0
11	Analytical Fresnel imaging models for photon sieves. Optics Express, 2018, 26, 32259.	3.4	12
12	Modeling Geomagnetically Induced Currents From Magnetometer Measurements: Spatial Scale Assessed With Reference Measurements. Space Weather, 2017, 15, 1357-1372.	3.7	27
13	Quantifying the inversion accuracy of simplified physical models for the nighttime OI 135.6Ånm emission. Journal of Geophysical Research: Space Physics, 2016, 121, 5805-5814.	2.4	9
14	Radiative transfer modeling of the OI 135.6Ånm emission in the nighttime ionosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 10116-10135.	2.4	38
15	Tactile soft-sparse mean fluid-flow imaging with a robotic whisker array. Bioinspiration and Biomimetics, 2015, 10, 046018.	2.9	10
16	2-D radio imaging of ionospheric electron density in the equatorial plane: Algorithms and results. , 2014, , .		0
17	Parameter estimation for instantaneous spectral imaging. , 2014, , .		1
18	A Parametric Estimation Approach to Instantaneous Spectral Imaging. IEEE Transactions on Image Processing, 2014, 23, 5707-5721.	9.8	5

#	ARTICLE	IF	CITATIONS
19	High-resolution computational spectral imaging with photon sieves. , 2014, , .		13
20	Image formation model for photon sieves. , 2013, , .		8
21	Cramer-Rao bounds and instrument optimization for slitless spectroscopy. , 2013, , .		3
22	Analytical precision limits in slitless spectroscopy. , 2012, , .		2
23	On resolution/error tradeoffs in incoherent scatter radar measurements. Radio Science, 2012, 47, .	1.6	2
24	Multidimensional image reconstruction in astronomy. IEEE Signal Processing Magazine, 2010, 27, 86-96.	5.6	13
25	A Robust Null Space Method for Linear Equality Constrained State Estimation. IEEE Transactions on Signal Processing, 2010, 58, 3961-3971.	5.3	72
26	Optimal dynamic tomography for wide-sense stationary spatial random fields. , 2009, , .		1
27	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
28	Uncertainties in extracted parameters of a Gaussian emission line profile with continuum background. Applied Optics, 2009, 48, 6913.	2.1	7
29	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
30	Tomographic Imaging of Dynamic Objects With the Ensemble Kalman Filter. IEEE Transactions on Image Processing, 2009, 18, 1573-1587.	9.8	28
31	QUANTITATIVE, THREE-DIMENSIONAL ANALYSIS OF THE GLOBAL CORONA WITH MULTI-SPACECRAFT DIFFERENTIAL EMISSION MEASURE TOMOGRAPHY. Astrophysical Journal, 2009, 701, 547-560.	4.5	47
32	Transform-domain penalized likelihood filtering of tomographic data. International Journal of Imaging Systems and Technology, 2008, 18, 350-364.	4.1	0
33	Basis selection for wavelet processing of sparse signals. Signal Processing, 2008, 88, 2340-2345.	3.7	3
34	Dynamic Tomographic Imaging of the Solar Corona. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 755-766.	10.8	15
35	Blind Estimation for Localized Low Contrast-to-Noise Ratio BOLD Signals. IEEE Journal on Selected Topics in Signal Processing, 2008, 2, 879-890.	10.8	10
36	Three-dimensional tomography of ionospheric variability using a dense GPS receiver array. Radio Science, 2008, 43, .	1.6	31

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37	An efficient near- ϵ optimal approach to incoherent scatter radar parameter estimation. Radio Science, 2008, 43, .	1.6	13
38	Optimal Sensor Array Configuration in Remote Image Formation. IEEE Transactions on Image Processing, 2008, 17, 155-166.	9.8	10
39	Tomographic imaging of airglow from airborne spectroscopic measurements. Applied Optics, 2008, 47, 2510.	2.1	5
40	Asymptotic convergence of the ensemble Kalman filter. , 2008, , .		10
41	Validation of Two MHD Models of the Solar Corona with Rotational Tomography. Astrophysical Journal, 2008, 682, 1328-1337.	4.5	15
42	Basis Selection for Wavelet Processing of Sparse Source Signals. , 2007, , .		1
43	Three-dimensional Tomographic Analysis of a High-Cadence LASCO-C2 Polarized Brightness Sequence. Astrophysical Journal, 2007, 671, L201-L204.	4.5	32
44	Localized three-dimensional ionospheric tomography with GPS ground receiver measurements. Radio Science, 2007, 42, .	1.6	27
45	On the variability of mesospheric OH emission profiles. Journal of Geophysical Research, 2007, 112, .	3.3	23
46	Transform-Domain Penalized-Likelihood Filtering of Projection Data. , 2006, , .		0
47	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
48	Methods of deducing intrinsic measurements of high frequency atmospheric gravity waves (AGWs). , 2005, , .		3
49	Determination of primary electron spectra from incoherent scatter radar measurements of the auroral Eregion. Radio Science, 2005, 40, n/a-n/a.	1.6	61
50	The first coordinated ground- and space-based optical observations of equatorial plasma bubbles. Geophysical Research Letters, 2003, 30, .	4.0	102
51	Tomographic studies of aeronomic phenomena using radio and UV techniques. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 1573-1580.	1.6	25
52	A statistical framework for space-based EUV ionospheric tomography. Radio Science, 1999, 34, 437-447.	1.6	37