

Arnold J Den Dekker

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

1,776

citations

23

h-index

41

g-index

67

ext. papers

2,058

ext. citations

4.3

avg, IF

4.46

L-index

#	Paper	IF	Citations
62	Maximum-likelihood estimation of Rician distribution parameters. <i>IEEE Transactions on Medical Imaging</i> , 1998 , 17, 357-61	11.7	264
61	Estimation of the noise in magnitude MR images. <i>Magnetic Resonance Imaging</i> , 1998 , 16, 87-90	3.3	206
60	Optimal experimental design for diffusion kurtosis imaging. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 819-29	11.7	154
59	Automatic estimation of the noise variance from the histogram of a magnetic resonance image. <i>Physics in Medicine and Biology</i> , 2007 , 52, 1335-48	3.8	110
58	Maximum likelihood estimation of structure parameters from high resolution electron microscopy images. Part I: a theoretical framework. <i>Ultramicroscopy</i> , 2005 , 104, 83-106	3.1	89
57	Parameter estimation from magnitude MR images. <i>International Journal of Imaging Systems and Technology</i> , 1999 , 10, 109-114	2.5	82
56	Resolution of coherent and incoherent imaging systems reconsidered - Classical criteria and a statistical alternative. <i>Optics Express</i> , 2006 , 14, 3830-9	3.3	56
55	Maximum likelihood estimation of structure parameters from high resolution electron microscopy images. Part II: a practical example. <i>Ultramicroscopy</i> , 2005 , 104, 107-25	3.1	52
54	Adaptive anisotropic noise filtering for magnitude MR data. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 1533-9	3.3	49
53	Parametric Bayesian filters for nonlinear stochastic dynamical systems: a survey. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 1607-24	10.2	47
52	Model-based two-object resolution from observations having counting statistics. <i>Ultramicroscopy</i> , 1999 , 77, 37-48	3.1	47
51	Data distributions in magnetic resonance images: a review. <i>Physica Medica</i> , 2014 , 30, 725-41	2.7	44
50	Optimal experimental design of STEM measurement of atom column positions. <i>Ultramicroscopy</i> , 2002 , 90, 273-89	3.1	44
49	Estimation of unknown structure parameters from high-resolution (S)TEM images: what are the limits?. <i>Ultramicroscopy</i> , 2013 , 134, 34-43	3.1	43
48	Iterative reweighted linear least squares for accurate, fast, and robust estimation of diffusion magnetic resonance parameters. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 2174-84	4.4	39
47	Is atomic resolution transmission electron microscopy able to resolve and refine amorphous structures?. <i>Ultramicroscopy</i> , 2003 , 98, 27-42	3.1	36
46	A new non-local maximum likelihood estimation method for Rician noise reduction in magnetic resonance images using the Kolmogorov-Smirnov test. <i>Signal Processing</i> , 2014 , 103, 16-23	4.4	34

45	Estimation of diffusion properties in crossing fiber bundles. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 1504-15	11.7	30
44	Super-resolution reconstruction of diffusion parameters from diffusion-weighted images with different slice orientations. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 181-95	4.4	29
43	Does a monochromator improve the precision in quantitative HRTEM?. <i>Ultramicroscopy</i> , 2001 , 89, 275-90	3.1	28
42	Advanced electron crystallography through model-based imaging. <i>IUCrJ</i> , 2016 , 3, 71-83	4.7	27
41	Resolution reconsidered: Conventional approaches and an alternative. <i>Advances in Imaging and Electron Physics</i> , 2001 , 117, 241-360	0.2	24
40	How to optimize the design of a quantitative HREM experiment so as to attain the highest precision. <i>Journal of Microscopy</i> , 1999 , 194, 95-104	1.9	24
39	Harmonization of Brain Diffusion MRI: Concepts and Methods. <i>Frontiers in Neuroscience</i> , 2020 , 14, 396	5.1	20
38	High-resolution electron microscopy: from imaging toward measuring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2002 , 51, 611-615	5.2	16
37	Diffusion kurtosis imaging with free water elimination: A bayesian estimation approach. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 802-813	4.4	13
36	The role of Poisson's binomial distribution in the analysis of TEM images. <i>Ultramicroscopy</i> , 2011 , 111, 1553-6	3.1	12
35	A Unified Maximum Likelihood Framework for Simultaneous Motion and T_1 Estimation in Quantitative MR T_1 Mapping. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 433-446	11.7	11
34	Introducing measure-by-wire, the systematic use of systems and control theory in transmission electron microscopy. <i>Ultramicroscopy</i> , 2011 , 111, 1581-91	3.1	11
33	Implications of the Rician distribution for fMRI generalized likelihood ratio tests. <i>Magnetic Resonance Imaging</i> , 2005 , 23, 953-9	3.3	11
32	Ultimate resolution in the presence of coherence. <i>Ultramicroscopy</i> , 1995 , 60, 345-348	3.1	10
31	Super-resolution T estimation: Quantitative high resolution T mapping from a set of low resolution T-weighted images with different slice orientations. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1818-1830	4.4	9
30	Physical limits on atomic resolution. <i>Microscopy and Microanalysis</i> , 2004 , 10, 153-7	0.5	9
29	Generalized likelihood ratio tests for complex fMRI data: a simulation study. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 604-11	11.7	8
28	Detecting and locating light atoms from high-resolution STEM images: The quest for a single optimal design. <i>Ultramicroscopy</i> , 2016 , 170, 128-138	3.1	8

27	NOVIFAST: A Fast Algorithm for Accurate and Precise VFA MRI Mapping. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 2414-2427	11.7	7
26	Supporting measurements or more averages? How to quantify cerebral blood flow most reliably in 5 minutes by arterial spin labeling. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2523-2536	4.4	6
25	Parametric Reconstruction of Glass Fiber-reinforced Polymer Composites from X-ray Projection Data-A Simulation Study. <i>Journal of Nondestructive Evaluation</i> , 2018 , 37, 62	2.1	6
24	Towards STEM control: Modeling framework and development of a sensor for defocus control 2009 ,		6
23	Optimal estimation of T2 maps from magnitude MR images 1998 , 3338, 384		6
22	Partial Discreteness: A Novel Prior for Magnetic Resonance Image Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1041-1053	11.7	5
21	The reconstructed residual error: A novel segmentation evaluation measure for reconstructed images in tomography. <i>Computer Vision and Image Understanding</i> , 2014 , 126, 28-37	4.3	5
20	Atom-counting in High Resolution Electron Microscopy: TEM or STEM - That's the question. <i>Ultramicroscopy</i> , 2017 , 174, 112-120	3.1	5
19	POEM: A fast defocus estimation method for scanning transmission electron microscopy 2011 ,		5
18	The costs and benefits of estimating T of tissue alongside cerebral blood flow and arterial transit time in pseudo-continuous arterial spin labeling. <i>NMR in Biomedicine</i> , 2020 , 33, e4182	4.4	5
17	A nonlocal maximum likelihood estimation method for enhancing magnetic resonance phase maps. <i>Signal, Image and Video Processing</i> , 2017 , 11, 913-920	1.6	3
16	Identification of Time Series Models From Segments Application to Scanning Transmission Electron Microscopy Images. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 3231-3242	5.2	3
15	Towards an adaptive minimum variance control scheme for specimen drift compensation in transmission electron microscopes 2011 ,		3
14	Defocus Polar rOse Estimation Method (POEM): A Fast Defocus Estimation Method for STEM. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 2723-2730	5.2	3
13	A New Nonlocal Maximum Likelihood Estimation Method for Denoising Magnetic Resonance Images. <i>Lecture Notes in Computer Science</i> , 2013 , 451-458	0.9	3
12	Joint Maximum Likelihood Estimation of Motion and T1 Parameters from Magnetic Resonance Images in a Super-resolution Framework: a Simulation Study. <i>Fundamenta Informaticae</i> , 2020 , 172, 105-128	1.2	2
11	Towards automatic control of scanning transmission electron microscopes 2009 ,		2
10	Convex saturated particle filter. <i>Automatica</i> , 2014 , 50, 2494-2503	5.7	1

9	Measure-by-Wire (MBW). <i>Advances in Imaging and Electron Physics</i> , 2013 , 179, 291-346	0.2	1
8	Simultaneous motion correction and T1 estimation in quantitative T1 mapping: An ML restoration approach 2015 ,		1
7	Fast phase diversity wavefront sensing using object independent metrics 2012 ,		1
6	Alignment Control of STEM a Ronchigram Based Approach. <i>Microscopy and Microanalysis</i> , 2009 , 15, 118-119		1
5	Model-based super-resolution reconstruction with joint motion estimation for improved quantitative MRI parameter mapping. <i>Computerized Medical Imaging and Graphics</i> , 2022 , 102071	7.6	0
4	A comparison between minimum variance control and other online compensation methods for specimen drift in transmission electron microscopy. <i>Multidimensional Systems and Signal Processing</i> , 2014 , 25, 247-271	1.8	
3	Observer Development for Automatic STEM Closed-Loop Control. <i>Microscopy and Microanalysis</i> , 2009 , 15, 1096-1097	0.5	
2	Towards Quantitative Structure Determination Through Electron Holographic Methods. <i>Materials Characterization</i> , 1999 , 42, 265-281	3.9	
1	Improved diffusion parameter estimation by incorporating T relaxation properties into the DKI-FWE model.. <i>NeuroImage</i> , 2022 , 119219	7.9	