SRI maintains and continuously updates a list of all AMISR publications, both related to science and engineering, at http://www.amisr.com/amisr/pubs/. Some of the key publications describing the AMISR technology and algorithms are:

[M. J. Nicolls](http://amisr.com/publications/m.%2Bj.%2Bnicolls/)
[**Space Debris Measurements using the Advanced Modular Incoherent Scatter Radar**](http://amisr.com/publications/179/)
*AMOS, 2015*

[M. J. Nicolls](http://amisr.com/publications/m.%2Bj.%2Bnicolls/), [R. Cosgrove](http://amisr.com/publications/r.%2Bcosgrove/), and [H. Bahcivan](http://amisr.com/publications/h.%2Bbahcivan/)
[**Estimating the vector electric field using monostatic, multibeam incoherent scatter radar measurements**](http://amisr.com/publications/156/)
*Radio Sci., 2014*

[T. Valentic](http://amisr.com/publications/t.%2Bvalentic/), [J. Buonocore](http://amisr.com/publications/j.%2Bbuonocore/), [M. Cousins](http://amisr.com/publications/m.%2Bcousins/), [C. Heinselman](http://amisr.com/publications/c.%2Bheinselman/), [J. Jorgensen](http://amisr.com/publications/j.%2Bjorgensen/), [J. Kelly](http://amisr.com/publications/j.%2Bkelly/), [M. Malone](http://amisr.com/publications/m.%2Bmalone/), [M. Nicolls](http://amisr.com/publications/m.%2Bnicolls/), and [A. V. Eyken](http://amisr.com/publications/a.%2Bv.%2Beyken/)
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[**Initial results from Poker Flat Incoherent Scatter Radar (PFISR)**](http://amisr.com/publications/45/)
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[J. Semeter](http://amisr.com/publications/j.%2Bsemeter/), [T. Butler](http://amisr.com/publications/t.%2Bbutler/), [C. Heinselman](http://amisr.com/publications/c.%2Bheinselman/), [M. Nicolls](http://amisr.com/publications/m.%2Bnicolls/), [J. Kelly](http://amisr.com/publications/j.%2Bkelly/), and [D. Hampton](http://amisr.com/publications/d.%2Bhampton/)
[**Volumetric imaging of the auroral ionosphere: Initial results from PFISR**](http://amisr.com/publications/55/)
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[J. J. Sojka](http://amisr.com/publications/j.%2Bj.%2Bsojka/), [M. J. Nicolls](http://amisr.com/publications/m.%2Bj.%2Bnicolls/), [C. J. Heinselman](http://amisr.com/publications/c.%2Bj.%2Bheinselman/), and [J. D. Kelly](http://amisr.com/publications/j.%2Bd.%2Bkelly/)
[**The PFISR IPY observations of ionospheric climate and weather**](http://amisr.com/publications/57/)
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[C. J. Heinselman](http://amisr.com/publications/c.%2Bj.%2Bheinselman/) and [M. J. Nicolls](http://amisr.com/publications/m.%2Bj.%2Bnicolls/)
[**A Bayesian approach to electric field and E-region neutral wind estimation with the Poker Flat Advanced Modular Incoherent Scatter Radar**](http://amisr.com/publications/68/)
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