

# Sajid Ahmed

## List of Publications by Year in descending order

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44  
papers

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citations

516215

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713013

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48  
all docs

48  
docs citations

48  
times ranked

547  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unconstrained Synthesis of Covariance Matrix for MIMO Radar Transmit Beampattern. IEEE Transactions on Signal Processing, 2011, 59, 3837-3849.	3.2	125
2	Finite Alphabet Constant-Envelope Waveform Design for MIMO Radar. IEEE Transactions on Signal Processing, 2011, 59, 5326-5337.	3.2	98
3	Fourier-Based Transmit Beampattern Design Using MIMO Radar. IEEE Transactions on Signal Processing, 2014, 62, 2226-2235.	3.2	91
4	MIMO Radar Transmit Beampattern Design Without Synthesising the Covariance Matrix. IEEE Transactions on Signal Processing, 2014, 62, 2278-2289.	3.2	82
5	MIMO-Radar Waveform Covariance Matrix for High SINR and Low Side-Lobe Levels. IEEE Transactions on Signal Processing, 2014, 62, 2056-2065.	3.2	73
6	ECG-based machine-learning algorithms for heartbeat classification. Scientific Reports, 2021, 11, 18738.	1.6	51
7	Communication through Breath: Aerosol Transmission. IEEE Communications Magazine, 2019, 57, 33-39.	4.9	39
8	iPromoter-BnCNN: a novel branched CNN-based predictor for identifying and classifying sigma promoters. Bioinformatics, 2020, 36, 4869-4875.	1.8	37
9	Modeling of Viral Aerosol Transmission and Detection. IEEE Transactions on Communications, 2020, 68, 4859-4873.	4.9	33
10	DFT-Based Closed-Form Covariance Matrix and Direct Waveforms Design for MIMO Radar to Achieve Desired Beampatterns. IEEE Transactions on Signal Processing, 2017, 65, 2104-2113.	3.2	30
11	Generation of Correlated Finite Alphabet Waveforms Using Gaussian Random Variables. IEEE Transactions on Signal Processing, 2014, 62, 4587-4596.	3.2	27
12	Low Complexity Moving Target Parameter Estimation for MIMO Radar Using 2D-FFT. IEEE Transactions on Signal Processing, 2017, 65, 4745-4755.	3.2	25
13	Compact mmWave FMCW radar: Implementation and performance analysis. IEEE Aerospace and Electronic Systems Magazine, 2019, 34, 36-44.	2.3	22
14	A survey of correlated waveform design for multifunction software radar. IEEE Aerospace and Electronic Systems Magazine, 2016, 31, 19-31.	2.3	19
15	Minimizing the Symbol-Error-Rate for Amplify-and-Forward Relaying Systems Using Evolutionary Algorithms. IEEE Transactions on Communications, 2015, 63, 390-400.	4.9	17
16	Frequency Diverse Array Radar: New Results and Discrete Fourier Transform Based Beampattern. IEEE Transactions on Signal Processing, 2020, 68, 2670-2681.	3.2	17
17	A Survey on Joint Communication-Radar Systems. Frontiers in Communications and Networks, 2021, 1, .	1.9	15
18	Detection and localization of multiple short range targets using FMCW radar signal. , 2016, , .		12

#	ARTICLE	IF	CITATIONS
19	System Modeling of Virus Transmission and Detection in Molecular Communication Channels. , 2018, , .		9
20	Reduced-Complexity Iterative Equalization for Severe Time-Dispersive MIMO Channels. IEEE Transactions on Vehicular Technology, 2008, 57, 594-600.	3.9	8
21	Generating correlated QPSK waveforms by exploiting real gaussian random variables. , 2012, , .		8
22	Generalised two target localisation using passive monopulse radar. IET Radar, Sonar and Navigation, 2017, 11, 932-936.	0.9	7
23	Closed-form solution to directly design face waveforms for beampatterns using planar array. , 2015, , .		6
24	Low complexity joint estimation of reflection coefficient, spatial location, and Doppler shift for MIMO-radar by exploiting 2D-FFT. , 2014, , .		5
25	Two target localization using passive monopulse radar. , 2015, , .		5
26	Reduced complexity DOA and DOD estimation for a single moving target in bistatic MIMO radar. Signal Processing, 2020, 166, 107276.	2.1	5
27	Frequency Diverse Array Radar: A Closed-Form Solution to Design Weights for Desired Beampattern. , 2020, , .		5
28	Fractional Fourier Transform Based QRS Complex Detection in ECG Signal. , 2020, , .		4
29	Target parameter estimation for spatial and temporal formulations in MIMO radars using compressive sensing. Eurasip Journal on Advances in Signal Processing, 2017, 2017, .	1.0	3
30	Closed form fourier-based transmit beamforming for MIMO radar. , 2014, , .		2
31	Reduction of snapshots for MIMO radar detection by block/group orthogonal matching pursuit. , 2014, , .		2
32	Low complexity algorithms to independently and jointly estimate the location and range of targets using FMCW. , 2016, , .		2
33	Exploiting Cross-Correlation Between ECG signals to Detect Myocardial Infarction. , 2020, , .		2
34	Fast computations of constant envelope waveforms for MIMO radar transmit beampattern. , 2010, , .		1
35	MIMO-radar waveform design for beampattern using particle-swarm-optimisation. , 2012, , .		1
36	Low Complexity Parameter Estimation For Off-the-Grid Targets. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
37	Reduced complexity FFT-based DOA and DOD estimation for moving target in bistatic MIMO radar. , 2016, , .		1
38	Closed-form solution to directly design frequency modulated waveforms for beampatterns. , 2017, , .		1
39	Performance of Iterative MAP Receiver for MIMO-OFDM Channels with Anti-Gray Mapping. IEEE Vehicular Technology Conference, 2008, , .	0.2	0
40	Low complexity receiver design for MIMO-radar. , 2012, , .		0
41	A waveform covariancematrix for high SINR and low side-lobe levels. , 2013, , .		0
42	GENERATION OF CORRELATED PSK WAVEFORMS USING COMPLEX GAUSSIAN RANDOM VARIABLES. , 2018, , .		0
43	OPTIMAL EIGENVALUE DECOMPOSITION BASED FREQUENCY ESTIMATION ALGORITHM FOR COMPLEX SINUSOIDAL SIGNALS. , 2018, , .		0
44	Discrete Fourier Transform Based Closed-Form Algorithm to Design Desired Beampattern for Frequency Diverse Array Radar. , 2020, , .		0