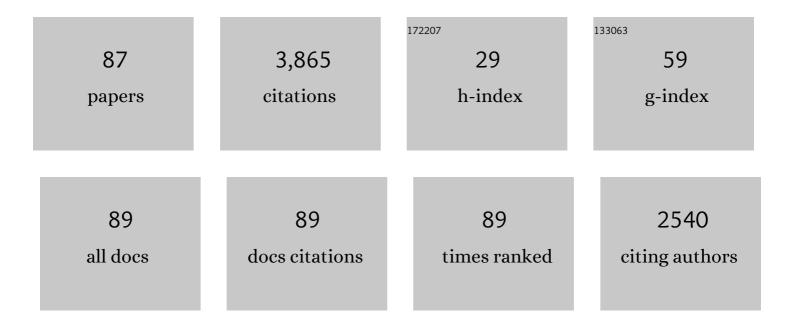
P Mohana Shankar

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A review of fiber-optic biosensors. Sensors and Actuators B: Chemical, 2007, 125, 688-703. | 4.0 | 582 |
| 2 | A general statistical model for ultrasonic backscattering from tissues. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2000, 47, 727-736. | 1.7 | 433 |
| 3 | Advantages of Subharmonic Over Second Harmonic Backscatter for Contrast-To-Tissue Echo Enhancement. Ultrasound in Medicine and Biology, 1998, 24, 395-399. | 0.7 | 191 |
| 4 | Classification of ultrasonic B-mode images of breast masses using Nakagami distribution. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 569-580. | 1.7 | 186 |
| 5 | Ultrasonic tissue characterization using a generalized Nakagami model. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 1716-1720. | 1.7 | 157 |
| 6 | Bubble size measurements using the nonlinear mixing of two frequencies. Journal of the Acoustical Society of America, 1984, 75, 1473-1477. | 0.5 | 147 |
| 7 | Use of non-Rayleigh statistics for the identification of tumors in ultrasonic B-scans of the breast. IEEE Transactions on Medical Imaging, 1993, 12, 687-692. | 5.4 | 146 |
| 8 | A model for ultrasonic scattering from tissues based on the K distribution. Physics in Medicine and Biology, 1995, 40, 1633-1649. | 1.6 | 132 |
| 9 | Subharmonic backscattering from ultrasound contrast agents. Journal of the Acoustical Society of America, 1999, 106, 2104-2110. | 0.5 | 113 |
| 10 | Ultrasound speckle analysis based on the K distribution. Journal of the Acoustical Society of America, 1991, 89, 2992-2995. | 0.5 | 110 |
| 11 | Fading and Shadowing in Wireless Systems. , 2012, , . | | 106 |
| 12 | Non-Rayleigh statistics of ultrasonic backscattered signals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1994, 41, 845-852. | 1.7 | 95 |
| 13 | Performance Analysis of Diversity Combining Algorithms in Shadowed Fading Channels. Wireless Personal Communications, 2006, 37, 61-72. | 1.8 | 80 |
| 14 | Detection of pathogen Escherichia coli O157:H7 AT 70cells/mL using antibody-immobilized biconical tapered fiber sensors. Biosensors and Bioelectronics, 2005, 21, 871-880. | 5.3 | 76 |
| 15 | Subharmonic generation from ultrasonic contrast agents. Physics in Medicine and Biology, 1999, 44, 681-694. | 1.6 | 72 |
| 16 | ROC analysis of ultrasound tissue characterization classifiers for breast cancer diagnosis. IEEE Transactions on Medical Imaging, 2003, 22, 170-177. | 5.4 | 67 |
| 17 | A compound scattering pdf for the ultrasonic echo envelope and its relationship to K and Nakagami distributions. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 339-343. | 1.7 | 67 |
| 18 | Classification of breast masses in ultrasonic B scans using Nakagami and K distributions. Physics in Medicine and Biology, 2003, 48, 2229-2240. | 1.6 | 66 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Effects of geometry on transmission and sensing potential of tapered fiber sensors. Biosensors and Bioelectronics, 2006, 21, 2202-2209. | 5.3 | 58 |
| 20 | Fading and Shadowing in Wireless Systems. , 2017, , . | | 55 |
| 21 | Label-free detection of DNA hybridization using gold-coated tapered fiber optic biosensors (TFOBS) in a flow cell at 1310nm and 1550nm. Sensors and Actuators B: Chemical, 2008, 131, 640-645. | 4.0 | 54 |
| 22 | Split-spectrum processing: analysis of polarity threshold algorithm for improvement of signal-to-noise ratio and detectability in ultrasonic signals. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1989, 36, 101-108. | 1.7 | 52 |
| 23 | Characterization of ultrasonic B-scans using non-rayleigh statistics. Ultrasound in Medicine and Biology, 1995, 21, 161-170. | 0.7 | 51 |
| 24 | Comparisons of the Rayleigh and K -distribution models using in vivo breast and liver tissue. Ultrasound in Medicine and Biology, 1998, 24, 93-100. | 0.7 | 49 |
| 25 | The use of the compound probability density function in ultrasonic tissue characterization. Physics in Medicine and Biology, 2004, 49, 1007-1015. | 1.6 | 43 |
| 26 | Statistical Models for Fading and Shadowed Fading Channels in Wireless Systems: A Pedagogical Perspective. Wireless Personal Communications, 2011, 60, 191-213. | 1.8 | 40 |
| 27 | Subharmonic signal generation from contrast agents in simulated neovessels. Ultrasound in Medicine and Biology, 2004, 30, 199-203. | 0.7 | 38 |
| 28 | Use of the K-distribution for classification of breast masses. Ultrasound in Medicine and Biology, 2000, 26, 1503-1510. | 0.7 | 36 |
| 29 | Macrodiversity and Microdiversity in Correlated Shadowed Fading Channels. IEEE Transactions on Vehicular Technology, 2009, 58, 727-732. | 3.9 | 35 |
| 30 | Ultrasonic measurement of bubble cloud size profiles. Journal of the Acoustical Society of America, 1985, 78, 196-201. | 0.5 | 32 |
| 31 | Nonuniform phase distribution in ultrasound speckle analysis. I. Background and experimental demonstration. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1992, 39, 352-359. | 1.7 | 32 |
| 32 | Application of the compound probability density function for characterization of breast masses in ultrasound B scans. Physics in Medicine and Biology, 2005, 50, 2241-2248. | 1.6 | 29 |
| 33 | Studies on the use of non-Rayleigh statistics for ultrasonic tissue characterization. Ultrasound in Medicine and Biology, 1996, 22, 873-882. | 0.7 | 28 |
| 34 | Classification of breast masses in ultrasonic b-mode images using a compounding technique in the nakagami distribution domain. Ultrasound in Medicine and Biology, 2002, 28, 1295-1300. | 0.7 | 28 |
| 35 | Computer-aided classification of breast masses in ultrasonic B-scans using a multiparameter approach. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2003, 50, 1002-1009. | 1.7 | 28 |
| 36 | Use of frequency diversity and Nakagami statistics in ultrasonic tissue characterization. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2001, 48, 1139-1146. | 1.7 | 27 |

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|----|--|-----|-----------|
| 37 | Studies on ultrasonic scattering from quasi-periodic structures. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1997, 44, 114-124. | 1.7 | 26 |
| 38 | Model protein detection using antibody-immobilized tapered fiber optic biosensors (TFOBS) in a flow cell at 1310nm and 1550nm. Sensors and Actuators B: Chemical, 2008, 129, 716-725. | 4.0 | 25 |
| 39 | A Nakagami-N-gamma Model for Shadowed Fading Channels. Wireless Personal Communications, 2012, 64, 665-680. | 1.8 | 25 |
| 40 | Statistical modeling of atherosclerotic plaque in carotid B mode images—a feasibility study. Ultrasound in Medicine and Biology, 2003, 29, 1305-1309. | 0.7 | 20 |
| 41 | Computer aided classification of masses in ultrasonic mammography. Medical Physics, 2002, 29, 1968-1973. | 1.6 | 19 |
| 42 | Classification of ultrasonic B mode images of the breast using frequency diversity and Nakagami statistics. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2002, 49, 664-668. | 1.7 | 17 |
| 43 | Maximal Ratio Combining (MRC) in Shadowed Fading Channels in Presence of Shadowed Fading Cochannel Interference (CCI). Wireless Personal Communications, 2013, 68, 15-25. | 1.8 | 17 |
| 44 | Measuring bacterial growth by tapered fiber and changes in evanescent field. Biosensors and Bioelectronics, 2006, 21, 1339-1344. | 5.3 | 15 |
| 45 | A statistical model for the ultrasonic backscattered echo from tissue containing microcalcifications. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 932-942. | 1.7 | 15 |
| 46 | Bubble sizing with high spatial resolution. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 1990, 37, 30-37. | 1.7 | 13 |
| 47 | Estimation of the Nakagami parameter from log-compressed ultrasonic backscattered envelopes (L). Journal of the Acoustical Society of America, 2003, 114, 70-72. | 0.5 | 11 |
| 48 | Speckle reduction in ultrasonic images through a maximum likelihood based adaptive filter. Physics in Medicine and Biology, 2006, 51, 5591-5602. | 1.6 | 11 |
| 49 | Pedagogy of Bayes' rule, confusion matrix, transition matrix, and receiver operating characteristics. Computer Applications in Engineering Education, 2019, 27, 510-518. | 2.2 | 11 |
| 50 | Performance of N*Nakagami cascaded fading channels in dual selection combining diversity. , 2011, , . | | 8 |
| 51 | Statistical Analysis of Short Term Fading and Shadowing in Ultra-Wideband Systems. , 2010, , . | | 7 |
| 52 | Error Rates in Dual Hop Wireless Links Operating in Cascaded Fading Channels. Wireless Personal Communications, 2014, 75, 1-9. | 1.8 | 7 |
| 53 | Applications of Coherent Optics and Holography in Biomedical Engineering. IEEE Transactions on Biomedical Engineering, 1982, BME-29, 8-15. | 2.5 | 6 |
| 54 | A Composite Shadowed Fading Model Based on the McKay Distribution and Meijer G Functions. Wireless Personal Communications, 2015, 81, 1017-1030. | 1.8 | 6 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Statistics of Boundaries in Ultrasonic B-Scan Images. Ultrasound in Medicine and Biology, 2015, 41, 268-280. | 0.7 | 6 |
| 56 | Characterization of ultrasonic transducers using a fiberoptic sensor. Ultrasound in Medicine and Biology, 1994, 20, 645-653. | 0.7 | 5 |
| 57 | Using phase information in ultrasonic backscatter for in vivo liver analysis. Ultrasound in Medicine and Biology, 1998, 24, 79-91. | 0.7 | 5 |
| 58 | Comments on â€~The effect of logarithmic compression on the estimation of the Nakagami parameter for ultrasonic tissue characterization'. Physics in Medicine and Biology, 2006, 51, L23-L26. | 1.6 | 5 |
| 59 | Pedagogy of chiâ€square goodness of fit test for continuous distributions. Computer Applications in Engineering Education, 2019, 27, 679-689. | 2.2 | 5 |
| 60 | Detection of binary images in noise. Optical and Quantum Electronics, 1979, 11, 133-140. | 1.5 | 4 |
| 61 | Lowâ€frequency oscillations of bubble plumes. Journal of the Acoustical Society of America, 1993, 93, 1362-1364. | 0.5 | 4 |
| 62 | Performance of Cognitive Radio in N*Nakagami Cascaded Channels. Wireless Personal Communications, 2016, 88, 657-667. | 1.8 | 4 |
| 63 | Tutorial overview of simple, stratified, and parametric bootstrapping. Engineering Reports, 2020, 2, e12096. | 0.9 | 4 |
| 64 | Formation and measurement of tapers in optical fibers. Review of Scientific Instruments, 1993, 64, 2650-2654. | 0.6 | 3 |
| 65 | Diversity in cascaded N*Nakagami channels. Annales Des Telecommunications/Annals of Telecommunications, 2013, 68, 477-483. | 1.6 | 3 |
| 66 | Pedagogy of diversity and data analytics: Theory to practice. Computer Applications in Engineering Education, 2019, 27, 1277-1285. | 2.2 | 3 |
| 67 | Quantitative measures of boundary and contrast enhancement in speckle reduction in ultrasonic B-mode images using spatial bessel filters. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 2086-2096. | 1.7 | 2 |
| 68 | An overview of shadowed fading wireless channels in terms of a cascaded approach. Physical Communication, 2015, 15, 59-65. | 1.2 | 2 |
| 69 | Introduction of data analytics in the engineering probability course: Implementation and lessons learnt. Computer Applications in Engineering Education, 2020, 28, 1072-1082. | 2.2 | 2 |
| 70 | System considerations for an optically controlled phased array antenna. , 0, , . | | 1 |
| 71 | Modal redistribution and power loss in on-fibre devices. Optical and Quantum Electronics, 1989, 21, 321-329. | 1.5 | 1 |
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72 Tapered Fibers for Cell Studies. , 2005, , 63-75.

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Use of two-dimensional phase-only filters and compounding for speckle reduction and edge detection in ultrasonic B-scan images. Applied Optics, 2009, 48, 5589. | 2.1 | 1 |
| 74 | Use of phase diversity and modified phase congruence for edge enhancement in ultrasonic imaging. Signal, Image and Video Processing, 2013, 7, 317-324. | 1.7 | 1 |
| 75 | A Matlab workbook on the pedagogy of generalized eigenvectors. Computer Applications in Engineering Education, 2017, 25, 411-419. | 2.2 | 1 |
| 76 | Modeling of Fading and Shadowing. , 2012, , 193-312. | | 1 |
| 77 | Concepts of Probability and Statistics. , 2012, , 7-108. | | 1 |
| 78 | Noise in Coherent Optical Information Retrieval. IETE Journal of Research, 1982, 28, 95-99. | 1.8 | 0 |
| 79 | Pedagogy of solutions to a set of linear equations using a Matlab workbook. Computer Applications in Engineering Education, 2017, 25, 345-351. | 2.2 | Ο |
| 80 | Pedagogy of Random Variable Transformations: A Matlab Workbook. Journal of the Indian Society for Probability and Statistics, 2017, 18, 281-294. | 0.3 | 0 |
| 81 | Applications to Data Analytics and Modeling. , 2021, , 337-420. | | 0 |
| 82 | Multiple Random Variables and Their Characteristics. , 2021, , 233-336. | | 0 |
| 83 | Diversity Techniques. , 2012, , 313-416. | | 0 |
| 84 | Concepts of Probability and Statistics. , 2017, , 9-212. | | 0 |
| 85 | Diversity Techniques. , 2017, , 521-673. | | 0 |
| 86 | Modeling of Fading and Shadowing. , 2017, , 299-520. | | 0 |
| 87 | Pedagogy of transformation of a random variable, censoring, and truncation of data. Computer Applications in Engineering Education, 0, , . | 2.2 | 0 |