

Peter Adam Hoehner

List of Publications by Year in descending order

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77
papers

1,174
citations

567281

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434195

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77
all docs

77
docs citations

77
times ranked

972
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Genetic Optimization of Liquid Crystal Matrix Based Interference Suppression for VLC MIMO Transmissions. IEEE Photonics Journal, 2022, 14, 1-5. | 2.0 | 8 |
| 2 | Simultaneous Localization and Calibration for Cooperative Radio Navigation. IEEE Transactions on Wireless Communications, 2022, 21, 6195-6210. | 9.2 | 5 |
| 3 | Bayesian In-Situ Calibration of Multiport Antennas for DoA Estimation: Theory and Measurements. IEEE Access, 2022, 10, 37967-37983. | 4.2 | 5 |
| 4 | Liquid Crystal Display Based Angle-of-Arrival Estimation of a Single Light Source. IEEE Photonics Journal, 2022, 14, 1-12. | 2.0 | 2 |
| 5 | Simultaneous Localization and Antenna Calibration. , 2022, , . | | 0 |
| 6 | Investigation of Multiple Fluorescent Dyes in Macroscopic Air-Based Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 78-82. | 2.1 | 12 |
| 7 | Manifold Optimization Based Beamforming for DoA and DoD Estimation with a Single Multi-Mode Antenna. , 2021, , . | | 2 |
| 8 | Underwater Optical Wireless Communications in Swarm Robotics: A Tutorial. IEEE Communications Surveys and Tutorials, 2021, 23, 2630-2659. | 39.4 | 31 |
| 9 | In-Field Calibration of a Multi-Mode Antenna for DoA Estimation. , 2021, , . | | 1 |
| 10 | Application of MIMO Techniques in Macroscopic Air-based Molecular Communication. , 2021, , . | | 1 |
| 11 | Duality Between Coronavirus Transmission and Air-Based Macroscopic Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2021, 7, 200-208. | 2.1 | 13 |
| 12 | Simultaneous Model and Parameter Estimation for Joint Communication and Positioning. IEEE Access, 2021, 9, 2934-2949. | 4.2 | 1 |
| 13 | Multi-Resonant Frequency Shift Keying: A Novel and Efficient Modulation Scheme for Magnetic Communication. IEEE Access, 2021, 9, 129431-129442. | 4.2 | 3 |
| 14 | Channel Coding and Receiver Design for Simultaneous Wireline Information and Power Transfer. IEEE Open Journal of Power Electronics, 2021, 2, 545-558. | 5.7 | 8 |
| 15 | Distributed Direct Localization Suitable for Dense Networks. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1209-1227. | 4.7 | 20 |
| 16 | Experimental Characterization of Single-Color Power LEDs Used as Photodetectors. Sensors, 2020, 20, 5200. | 3.8 | 10 |
| 17 | Underwater Communication Employing High-Sensitive Magnetic Field Detectors. IEEE Access, 2020, 8, 177385-177394. | 4.2 | 15 |
| 18 | Self-Aware Swarm Navigation in Autonomous Exploration Missions. Proceedings of the IEEE, 2020, 108, 1168-1195. | 21.3 | 33 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | Single-Element Beamforming using Multi-Mode Antenna Patterns. IEEE Wireless Communications Letters, 2020, , 1-1. | 5.0 | 9 |
| 20 | Hybrid Communication and Localization Underwater Network Nodes based on Magnetic Induction and Visible Light for AUV Support. , 2020, , . | | 5 |
| 21 | A testbed and simulation framework for air-based molecular communication using fluorescein. , 2020, , . | | 13 |
| 22 | Design of macroscopic air-based molecular communication concept using fluorescein. , 2020, , . | | 5 |
| 23 | Channel Modeling and SNR Enhancement for Coil to Magnetic Field Sensor Underwater Communication. , 2020, , . | | 0 |
| 24 | Optical Underwater Communication: The Potential of Using Converted Green LEDs in Coastal Waters. IEEE Journal of Oceanic Engineering, 2019, 44, 535-547. | 3.8 | 45 |
| 25 | FSK-Based Simultaneous Wireless Information and Power Transfer in Inductively Coupled Resonant Circuits Exploiting Frequency Splitting. IEEE Access, 2019, 7, 40183-40194. | 4.2 | 23 |
| 26 | Optical Interference Suppression Based on LCD-Filtering. Applied Sciences (Switzerland), 2019, 9, 3134. | 2.5 | 13 |
| 27 | Magnetic Communication Using High-Sensitivity Magnetic Field Detectors. Sensors, 2019, 19, 3415. | 3.8 | 23 |
| 28 | Modeling Aspects of Planar Multi-Mode Antennas for Direction-of-Arrival Estimation. IEEE Sensors Journal, 2019, 19, 4585-4597. | 4.7 | 12 |
| 29 | On the Potential of Multi-Mode Antennas for Direction-of-Arrival Estimation. IEEE Transactions on Antennas and Propagation, 2019, 67, 3374-3386. | 5.1 | 22 |
| 30 | LCD-Based Optical Filtering Suitable for Non-Imaging Channel Decorrelation in VLC Applications. Journal of Lightwave Technology, 2019, 37, 5892-5898. | 4.6 | 9 |
| 31 | Optical Multiple-Input Multiple-Output (MIMO) Techniques. , 2019, , 133-154. | | 0 |
| 32 | Multi-Mode Antenna Enabled Direction-of-Arrival Estimation for Swarm Navigation. , 2019, , . | | 4 |
| 33 | Spherical Wave Positioning Based on Curvature of Arrival by an Antenna Array. IEEE Wireless Communications Letters, 2019, 8, 504-507. | 5.0 | 14 |
| 34 | EXIT Chart Analysis of Higher Order Modulation Schemes in Molecular Communications. , 2019, , . | | 5 |
| 35 | Joint Precoding and Power Control for EIRP-Limited MIMO Systems. IEEE Transactions on Wireless Communications, 2018, 17, 1727-1737. | 9.2 | 3 |
| 36 | Constrained Intensity Superposition: A Hardware-Friendly Modulation Method. Journal of Lightwave Technology, 2018, 36, 658-665. | 4.6 | 7 |

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| 37 | Piecewise linear detection for direct superposition modulation. Digital Communications and Networks, 2018, 4, 98-105. | 5.0 | 2 |
| 38 | Fundamental Limits for Joint Relative Position and Orientation Estimation with Generic Antennas. , 2018, , . | | 2 |
| 39 | EXIT-Chart-Aided Code Matching in Molecular Communications. , 2018, , . | | 0 |
| 40 | Visible Light Tricolor LED-to-Camera Data Transmission Suitable for Internet-of-Things and Sensor Applications. , 2018, , . | | 2 |
| 41 | Effects and Constraints of Optical Filtering on Ambient Light Suppression in LED-Based Underwater Communications. Sensors, 2018, 18, 3710. | 3.8 | 21 |
| 42 | Array Gain Analysis in Molecular MIMO Communications. IEEE Access, 2018, 6, 61091-61102. | 4.2 | 23 |
| 43 | Symbol detection based on Voronoi surfaces with emphasis on superposition modulation. Digital Communications and Networks, 2017, 3, 141-149. | 5.0 | 4 |
| 44 | On the performance of WLAN and Bluetooth for in-car infotainment systems. Vehicular Communications, 2017, 10, 1-12. | 4.0 | 11 |
| 45 | Capacity-Increasing 3D Spatial Demultiplexer Design for Optical Wireless MIMO Transmission. , 2017, , . | | 3 |
| 46 | Parametric direction-of-arrival estimation for multi-mode antennas. , 2017, , . | | 2 |
| 47 | On the Performance of High-Rate LDPC Codes with Low-Resolution Analog-to-Digital Conversion. , 2017, , . | | 1 |
| 48 | Application of OFDM in Diffusion-Based Molecular Communication. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2017, 3, 254-258. | 2.1 | 4 |
| 49 | CutFM sonar signal design. Applied Acoustics, 2015, 90, 95-110. | 3.3 | 3 |
| 50 | Semi-blind channel estimation for joint communication and positioning. , 2013, , . | | 4 |
| 51 | Superposition modulation with irregular convolutional coding. , 2012, , . | | 2 |
| 52 | On the Combining of Correlated Random Measures with Application to Graph-Based Receivers. IEEE Communications Letters, 2012, 16, 1996-1999. | 4.1 | 1 |
| 53 | Performance limits of channel parameter estimation for joint communication and positioning. Eurasip Journal on Advances in Signal Processing, 2012, 2012, . | 1.7 | 4 |
| 54 | Channel Coding for IDM: High-Rate Convolutional Code Concatenated with Irregular Repetition Code. , 2011, , . | | 1 |

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| 55 | Superposition modulation: myths and facts. , 2011, 49, 110-116. | | 84 |
| 56 | Joint communication and positioning based on soft channel parameter estimation. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, . | 2.4 | 2 |
| 57 | Influence of oversampling on channel parameter estimation for joint communication and positioning. , 2011, , . | | 2 |
| 58 | A universal coding approach for superposition mapping. , 2010, , . | | 9 |
| 59 | Joint channel and parameter estimation for combined communication and navigation using particle swarm optimization. , 2010, , . | | 6 |
| 60 | Superposition modulation with reliability-based hybrid detection. , 2010, , . | | 3 |
| 61 | Fair user selection for zero-forcing precoding in multi-user MISO systems. , 2009, , . | | 2 |
| 62 | Reliability-based retransmission criteria for hybrid ARQ. IEEE Transactions on Communications, 2009, 57, 2181-2184. | 7.8 | 23 |
| 63 | Multiple-antenna techniques for wireless communications - a comprehensive literature survey. IEEE Communications Surveys and Tutorials, 2009, 11, 87-105. | 39.4 | 405 |
| 64 | Multi-layer interleave-division multiple access: theory and practice. European Transactions on Telecommunications, 2008, 19, 523-536. | 1.2 | 31 |
| 65 | Special issue on IDMA and related techniques. European Transactions on Telecommunications, 2008, 19, 497-498. | 1.2 | 1 |
| 66 | Quality-Oriented Adaptive Forwarding for Wireless Relaying. IEEE Communications Letters, 2008, 12, 200-202. | 4.1 | 25 |
| 67 | Helical interleaver set design for interleave-division multiplexing and related techniques. IEEE Communications Letters, 2008, 12, 843-845. | 4.1 | 21 |
| 68 | A Note on Discrete-Time Triply-Selective MIMO Rayleigh Fading Channel Models. IEEE Transactions on Wireless Communications, 2008, 7, 837-837. | 9.2 | 4 |
| 69 | Analysis and design of interleaver sets for interleave-division multiplexing and related techniques. , 2008, , . | | 5 |
| 70 | Routing Metrics Based on Soft-Output Decoding. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , . | 0.0 | 2 |
| 71 | Word Error Probability Estimation by Means of a Modified Viterbi Decoder. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , . | 0.0 | 9 |
| 72 | Predistortion and nonlinear detection for OFDM signals in the presence of nonlinear high power amplification. European Transactions on Telecommunications, 2007, 18, 411-418. | 1.2 | 3 |

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| 73 | The soft-output principle“remiscences and new developments. European Transactions on Telecommunications, 2007, 18, 829-835. | 1.2 | 6 |
| 74 | Joint Navigation & Communication based on Interleave-Division Multiple Access. , 2007, , 97-106. | | 4 |
| 75 | Iterative Pilot-Layer Aided Channel Estimation with Emphasis on Interleave-Division Multiple Access Systems. Eurasip Journal on Advances in Signal Processing, 2006, 2006, 1. | 1.7 | 42 |
| 76 | Bounds on mutual information for simple codes using information combining. Annales Des Telecommunications/Annals of Telecommunications, 2005, 60, 184-214. | 2.5 | 5 |
| 77 | Iterative semi-blind single-antenna cochannel interference cancellation and tight lower bound for joint maximum-likelihood sequence estimation. Signal Processing, 2004, 84, 1991-2004. | 3.7 | 8 |