# Leena Ukkonen

List of Publications by Year
in descending order



| 192 | 3,101 | 186265 | 223800 |
|---|---|---|---|
| papers | citations | 28 h-index | 46 g-index |

| 194 | 194 | 194 | 2493 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Next-Generation Healthcare: Enabling Technologies for Emerging Bioelectromagnetics Applications. IEEE Open Journal of Antennas and Propagation, 2022, 3, 363-390. | 3.7 | 24 |
| 2 | Fine-Tuning Impedance Matching Circuit for a Triple-Band Meandered PIFA in Brain-Implantable Bio-telemetric Systems. , 2022, , . | | 0 |
| 3 | Antennas and Wireless Power Transfer to Small Biomedical Brain Implants. , 2022, , . | | 1 |
| 4 | Double Split Rings as Extremely Small and Tuneable Antennas for Brain Implantable Wireless Medical Microsystems. IEEE Transactions on Antennas and Propagation, 2021, 69, 760-768. | 5.1 | 22 |
| 5 | Wearable Metasurface-Enabled Quasi-Yagi Antenna for UHF RFID Reader With End-Fire Radiation Along the Forearm. IEEE Access, 2021, 9, 77229-77238. | 4.2 | 10 |
| 6 | Testing the effects of fabrication parameters on the post-fabrication shape change of a three-dimensional printed textile platform. Textile Reseach Journal, 2021, 91, 2157-2166. | 2.2 | 3 |
| 7 | A Small All-Corners-Truncated Circularly Polarized Microstrip Patch Antenna on Textile Substrate for Wearable Passive UHF RFID Tags. IEEE Journal of Radio Frequency Identification, 2021, 5, 106-112. | 2.3 | 16 |
| 8 | Small Triple-Band Meandered PIFA for Brain-Implantable Biotelemetric Systems: Development and Testing in a Liquid Phantom. International Journal of Antennas and Propagation, 2021, 2021, 1-13. | 1.2 | 9 |
| 9 | Performance Evaluation of a Metasurface-enabled Wearable Quasi-Yagi Antenna with End-fire Radiation Pattern on Textile Substrate. , 2021, , . | | 0 |
| 10 | Small Triple-Band Meandered PIFA for Brain-Implantable Bio-telemetric Systems: Optimization of Substrate/Superstrate Effectiveness. , 2021, , . | | 1 |
| 11 | Corrigendum to â€œExperimental Study on Strain Reliability of Embroidered Passive UHF RFID Textile Tag Antennas and Interconnectionsâ€• Journal of Engineering (United States), 2020, 2020, 1-1. | 1.0 | 0 |
| 12 | Protective Coating Methods for Glove-Integrated RFID Tags - A Preliminary Study. , 2020, , . | | 2 |
| 13 | Corrigendum to â€œWearable Passive E-Textile UHF RFID Tag Based on a Slotted Patch Antenna with Sewn Ground and Microchip Interconnectionsâ€• International Journal of Antennas and Propagation, 2020, 2020, 1-1. | 1.2 | 0 |
| 14 | Corrigendum to â€œ3D-Printed Graphene Antennas and Interconnections for Textile RFID Tags: Fabrication and Reliability towards Humidityâ€• International Journal of Antennas and Propagation, 2020, 2020, 1-1. | 1.2 | 0 |
| 15 | Circularly Polarized Corner-Truncated and Slotted Microstrip Patch Antenna on Textile Substrate for Wearable Passive UHF RFID Tags. , 2020, , . | | 4 |
| 16 | Body Movement-Based Controlling Through Passive RFID Integrated Into Clothing. IEEE Journal of Radio Frequency Identification, 2020, 4, 414-419. | 2.3 | 9 |
| 17 | A Dual-ID RFID Tag for Headgear Based on Quasi-Yagi and Dipole Antennas. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1321-1325. | 4.0 | 10 |
| 18 | Headband Antenna for Wireless Power Transfer to Millimeter-Sized Neural Implants with Minimal Misalignment Effects. , 2020, , . | | 0 |

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| 19 | Inductively Coupled Split Ring Resonator as Small RFID Pressure Sensor for Biomedical Applications. , 2020, , . | | 2 |
| 20 | Intelligent Wristbands - Fabrication of Wearable RFID Solutions by 3D Printing Pen. , 2020, , . | | 4 |
| 21 | Passive Moisture Sensor Based on Conductive and Water-Soluble Yarns. IEEE Sensors Journal, 2020, 20, 10989-10995. | 4.7 | 10 |
| 22 | Comparison of Wearable E-Textile Split Ring Resonator and Slotted Patch RFID Reader Antennas Embedded in Work Gloves. IEEE Journal of Radio Frequency Identification, 2019, 3, 259-264. | 2.3 | 18 |
| 23 | Glove-Integrated Textile Antenna with Reduced SAR for Wearable UHF RFID Reader. , 2019, , . | | 8 |
| 24 | Clothing-Integrated Passive RFID Strain Sensor Platform for Body Movement-Based Controlling. , 2019, , . | | 22 |
| 25 | A Batteryless Semi-Passive RFID Sensor Platform. , 2019, , . | | 5 |
| 26 | Glove-Integrated Passive UHF RFID Tagsâ€"Fabrication, Testing and Applications. IEEE Journal of Radio Frequency Identification, 2019, 3, 127-132. | 2.3 | 18 |
| 27 | Microstrip transmission line modelâ€fitting approach for characterization of textile materials as dielectrics and conductors for wearable electronics. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2019, 32, e2582. | 1.9 | 9 |
| 28 | Eco-friendly Flexible Wireless Platforms by 3D Printing Pen. , 2019, , . | | 2 |
| 29 | Impact of Anatomical Variability on the Wireless Power Transfer to Intra-Abdominal Implants. , 2019, , . | | 2 |
| 30 | Electrically Small UHF RFID Tag Antenna Based on Inductively Coupled Resonant LC Tank. , 2019, , . | | 4 |
| 31 | Dual-ID Headgear UHF RFID Tag with Broadside and End-Fire Patterns based on Quasi-Yagi Antenna. , 2019, , . | | 2 |
| 32 | Passive UHF RFID-based User Interface on a Wooden Surface. , 2019, , . | | 10 |
| 33 | Maintenance-free Moisture Sensor on Dishcloth Substrate. , 2019, , . | | 0 |
| 34 | Embroidered and e-textile Conductors Embedded inside 3D-printed Structures. , 2019, , . | | 2 |
| 35 | Fabrication Challenges in Embedding of Components and Embroidered Conductors into 3D-printed Textile Electronics Structures. , 2019, , . | | 1 |
| 36 | Design, Fabrication, and Wireless Evaluation of a Passive 3D-printed Moisture Sensor on a Textile Substrate. , 2019, , . | | 0 |

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| 37 | Compact Dual-Band PIFA Based on a Slotted Radiator for Wireless Biomedical Implants. , 2019, , . | | 6 |
| 38 | Wireless Power Transfer to Intra-Abdominal Implants Using an Around-the-Body Loop Antenna. , 2019, , . | | 3 |
| 39 | Quasi-Yagi Antenna on a Periodic Surface for Low-Profile Headgear RFID Tag with Endfire Radiation. , 2019, , . | | 0 |
| 40 | Spatially Distributed Semi-Passive Backscattering Platform for Biomedical Application. , 2019, , . | | 0 |
| 41 | Small Multi-Resonant Meandered PIFA for Brain Implant Communications. , 2019, , . | | 3 |
| 42 | Split-Ring Resonator Antenna System With Cortical Implant and Head-Worn Parts for Effective Far-Field Implant Communications. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 710-713. | 4.0 | 22 |
| 43 | Charge Storage Level Indicator for RF Energy Harvester based on Dual-ID Passive UHF RFID Tag. , 2018, , . | | 0 |
| 44 | 3D-Printed Eco-Friendly and Cost-Effective Wireless Platforms. , 2018, , . | | 4 |
| 45 | Textile-Integrated Stretchable Structures for Wearable Wireless Platforms. , 2018, , . | | 1 |
| 46 | RF Energy Harvesting System Integrating a Passive UHF RFID Tag as a Charge Storage Indicator. , 2018, , . | | 4 |
| 47 | Embroidered UHF RFID Moisture Sensor Tag on Dishcloth Substrate. , 2018, , . | | 2 |
| 48 | Circularly Polarized Textile Tag Antenna for Wearable Passive UHF RFID Systems. , 2018, , . | | 3 |
| 49 | Comparison of Human Head Phantoms with Different Complexities for Implantable Antenna Development. , 2018, , . | | 4 |
| 50 | Glove-Integrated Slotted Patch Antenna for Wearable UHF RFID Reader. , 2018, , . | | 11 |
| 51 | Dual-Layer Circularly Polarized Split Ring Resonator Inspired Antenna for Wearable UHF RFID Tag. , 2018, , . | | 5 |
| 52 | A Transparent Strain Sensor Based on PDMS-Embedded Conductive Fabric for Wearable Sensing Applications. IEEE Access, 2018, 6, 71020-71027. | 4.2 | 61 |
| 53 | Polydimethylsiloxane-Embedded Conductive Fabric: Characterization and Application for Realization of Robust Passive and Active Flexible Wearable Antennas. IEEE Access, 2018, 6, 48102-48112. | 4.2 | 61 |
| 54 | Inductively Powered Pressure Sensing System Integrating a Far-Field Data Transmitter for Monitoring of Intracranial Pressure. IEEE Sensors Journal, 2017, 17, 2191-2197. | 4.7 | 23 |

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| 55 | Measurement of Wireless Power Transfer to Deep-Tissue RFID-Based Implants Using Wireless Repeater Node. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2171-2174. | 4.0 | 18 |
| 56 | Wirelessly powered implantable system for wireless long-term monitoring of intracranial pressure. , 2017, , . | | 2 |
| 57 | Electro-textile slotted patch antenna for wearable passive UHF RFID tags. , 2017, , . | | 1 |
| 58 | Wearable passive UHF RFID tag based on a split ring antenna. , 2017, , . | | 13 |
| 59 | Comparison of wearable passive UHF RFID tags based on electro-textile dipole and patch antennas in body-worn configurations. , 2017, , . | | 3 |
| 60 | Possibilities of Fabricating Copper-based RFID Tags with Photonic-sintered Inkjet Printing and Thermal Transfer Printing. IEEE Antennas and Wireless Propagation Letters, 2017, , 1-1. | 4.0 | 8 |
| 61 | Experimental study on UHF RFID tags integrated in medical bandage and paper-based materials. , 2017, , . | | 0 |
| 62 | Sensitivity enhancement of flexible gas sensors via conversion of inkjet-printed silver electrodes into porous gold counterparts. Scientific Reports, 2017, 7, 8988. | 3.3 | 29 |
| 63 | Flexible and Stretchable Brush-Painted Wearable Antenna on a Three-Dimensional (3-D) Printed Substrate. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 3108-3112. | 4.0 | 70 |
| 64 | Dual-Port Planar Antenna for Implantable Inductively Coupled Sensors. IEEE Transactions on Antennas and Propagation, 2017, 65, 5732-5739. | 5.1 | 6 |
| 65 | Embroidered Antenna-Microchip Interconnections and Contour Antennas in Passive UHF RFID Textile Tags. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1205-1208. | 4.0 | 47 |
| 66 | Effect of implant coating on wireless powering for intracranial pressure monitoring system. , 2017, , . | | 1 |
| 67 | Characterization of 3-D Loop Antenna to Overcome the Impact of Small Lateral Misalignment in Wirelessly Powered Intracranial Pressure Monitoring System. IEEE Transactions on Antennas and Propagation, 2017, 65, 7405-7410. | 5.1 | 12 |
| 68 | Antennas and antenna-electronics interfaces made of conductive yarn and paint for cost-effective wearable RFIDs and sensors. , 2017, , . | | 4 |
| 69 | Inkjet-printed antenna-electronics interconnections in passive UHF RFID tags. , 2017, , . | | 2 |
| 70 | Two-part stretchable passive UHF RFID textile tags. , 2017, , . | | 1 |
| 71 | Split ring resonator antenna system with implantable and wearable parts for far field readable backscattering implants. , 2017, , . | | 3 |
| 72 | Fabrication and moisture reliability of painted and electro-textile tags for wearable RFID applications. , 2017, , . | | 1 |

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| 73 | Embroidered antennas and antenna-electronics interfaces for wearable RFID tags. , 2017, , . | | 3 |
| 74 | 3D-Printed Graphene Antennas and Interconnections for Textile RFID Tags: Fabrication and Reliability towards Humidity. International Journal of Antennas and Propagation, 2017, 2017, 1-5. | 1.2 | 16 |
| 75 | Contactless health-care sensing. Nature, 2017, 551, 572-573. | 27.8 | 3 |
| 76 | Experimental Study on RFID Antenna Reading Areas in a Tunnel System. Journal of Engineering (United) Tj ETQq0 0 0 rgBT /Overlock 10 | 1.0 | 1 |
| 77 | Wearable Passive E-Textile UHF RFID Tag Based on a Slotted Patch Antenna with Sewn Ground and Microchip Interconnections. International Journal of Antennas and Propagation, 2017, 2017, 1-8. | 1.2 | 34 |
| 78 | Experimental Study on Strain Reliability of Embroidered Passive UHF RFID Textile Tag Antennas and Interconnections. Journal of Engineering (United States), 2017, 2017, 1-7. | 1.0 | 22 |
| 79 | Miniature Coplanar Implantable Antenna on Thin and Flexible Platform for Fully Wireless Intracranial Pressure Monitoring System. International Journal of Antennas and Propagation, 2017, 2017, 1-9. | 1.2 | 15 |
| 80 | Experimental Study on Inkjet-Printed Passive UHF RFID Tags on Versatile Paper-Based Substrates. International Journal of Antennas and Propagation, 2016, 2016, 1-8. | 1.2 | 12 |
| 81 | Development and Implementation of an RFID-Based Tunnel Access Monitoring System. Science and Technology of Nuclear Installations, 2016, 2016, 1-10. | 0.8 | 7 |
| 82 | Comparative study of inkjet and thermal printing for fabrication of passive UHF RFID tags. , 2016, , . | | 3 |
| 83 | A reliability study of coating materials for brush-painted washable textile RFID tags. , 2016, , . | | 2 |
| 84 | Strain reliability and substrate specific features of passive UHF RFID textile tag antennas. , 2016, , . | | 2 |
| 85 | Testing and modeling the performance of stretchable screen printed UHF RFID tag under strain. , 2016, , . | | 0 |
| 86 | Piezoresistive pressure sensor for ICP monitoring: Remote powering through wearable textile antenna and sensor readout experiment. , 2016, , . | | 4 |
| 87 | Optimization of orthogonal-coil RF probe for miniature passive implantable pressure sensors. , 2016, , . | | 0 |
| 88 | The possibilities of passive UHF RFID textile tags as comfortable wearable sweat rate sensors. , 2016, , . | | 10 |
| 89 | On-body antennas: Design considerations and challenges. , 2016, , . | | 11 |
| 90 | Additive manufacturing of antennas from copper oxide nanoparticle ink: Toward low-cost RFID tags on paper- and textile-based platforms. , 2016, , . | | 3 |

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| 91 | Experimental study on antenna â€" IC interconnections for electro-textile RFID tags. , 2016, , . | | 1 |
| 92 | Reliability study of flexible inkjet- and thermal-printed RFID antennas in high humidity conditions. , 2016, , . | | 2 |
| 93 | Minimum of two-port voltage and power gain under varying terminations: Semi-analytical method and application to biotelemetry systems. , 2016, , . | | 0 |
| 94 | Performance comparison of inkjet and thermal transfer printed passive ultraâ€highâ€frequency radioâ€frequency identification tags. IET Microwaves, Antennas and Propagation, 2016, 10, 1507-1514. | 1.4 | 3 |
| 95 | Antennas in Body-Centric Sensor Network Devices. , 2016, , 2589-2612. | | 1 |
| 96 | Screen-Printing Fabrication and Characterization of Stretchable Electronics. Scientific Reports, 2016, 6, 25784. | 3.3 | 151 |
| 97 | A novel carbon nanotube loaded passive UHF RFID sensor tag with built-in reference for wireless gas sensing. , 2016, , . | | 14 |
| 98 | Performance of silver-based textile UHF passive RFID tags after recurrent washing. , 2016, , . | | 3 |
| 99 | The possibilities of graphene-based passive RFID tags in high humidity conditions. , 2016, , . | | 3 |
| 100 | Characterization of nanoparticle inks on a novel polyester-based substrate for manufacturing of passive UHF RFID tags. , 2016, , . | | 0 |
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| 102 | Towards eco-friendly and cost-effective passive RFID applications. , 2016, , . | | 7 |
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| 106 | Reliability of Passive UHF RFID Copper Tags on Plywood Substrate in High Humidity Conditions. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2016, 2016, 12-16. | 0.2 | 2 |
| 107 | Flash reduction of inkjet printed graphene oxide on flexible substrates for electronic applications. , 2015, , . | | 0 |
| 108 | Biotelemetric Wireless Intracranial Pressure Monitoring: AnIn VitroStudy. International Journal of Antennas and Propagation, 2015, 2015, 1-10. | 1.2 | 20 |

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| 126 | Antennas in Body-Centric Sensor Network Devices. , 2015, , 1-20. | | 0 |

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| 130 | Analysis of biotelemetric interrogation of chronically implantable intracranial capacitive pressure sensor. , 2014, , . | | 10 |
| 131 | On-body antennas: Towards wearable intelligence. , 2014, , . | | 1 |
| 132 | Comparison of inkjet-printed and microfabricated loop antennas for implants in wireless brain-machine interface systems. , 2014, , . | | 1 |
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| 134 | Design and optimization of mm-size implantable and wearable on-body antennas for biomedical systems. , 2014, , . | | 13 |
| 135 | WLAN and RFID Propagation channels for hybrid indoor positioning. , 2014, , . | | 38 |
| 136 | Optimized RF/microwave antennas and circuits on low-cost fibrous substrates using inkjet-printing technology. , 2014, , . | | 0 |
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| 151 | Effects of Sewing Pattern on the Performance of Embroidered Dipole-Type RFID Tag Antennas. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1482-1485. | 4.0 | 53 |
| 152 | Small slot antenna for metal mountable UHF RFID tags. , 2012, , . | | 6 |
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