# Redmond Ramin Shamshiri

List of Publications by Year
in descending order

| 50 | 1,638 | 516710 | 315739 |
|---|---|---|---|
| papers | citations | 16 | 38 |
| | | h-index | g-index |

| 53 | 53 | 53 | 1592 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 1 | Review of optimum temperature, humidity, and vapour pressure deficit for microclimate evaluation and control in greenhouse cultivation of tomato: a review. International Agrophysics, 2018, 32, 287-302. | 1.7 | 229 |
| 2 | Research and development in agricultural robotics: A perspective of digital farming. International Journal of Agricultural and Biological Engineering, 2018, 11, 1-11. | 0.6 | 190 |
| 3 | Advances in greenhouse automation and controlled environment agriculture: A transition to plant factories and urban agriculture. International Journal of Agricultural and Biological Engineering, 2018, 11, 1-22. | 0.6 | 172 |
| 4 | Mining and Development of Novel SSR Markers Using Next Generation Sequencing (NGS) Data in Plants. Molecules, 2018, 23, 399. | 3.8 | 141 |
| 5 | A review on opportunities for implementation of solar energy technologies in agricultural greenhouses. Journal of Cleaner Production, 2021, 285, 124807. | 9.3 | 122 |
| 6 | Solar photovoltaic power generation in Iran: Development, policies, and barriers. Renewable and Sustainable Energy Reviews, 2019, 106, 110-123. | 16.4 | 97 |
| 7 | Research and development in agricultural robotics: A perspective of digital farming. International Journal of Agricultural and Biological Engineering, 2018, 11, 1-11. | 0.6 | 82 |
| 8 | Recent updates on the adsorption capacities of adsorbent-adsorbate pairs for heat transformation applications. Renewable and Sustainable Energy Reviews, 2020, 119, 109630. | 16.4 | 68 |
| 9 | Model-based evaluation of greenhouse microclimate using IoT-Sensor data fusion for energy efficient crop production. Journal of Cleaner Production, 2020, 263, 121303. | 9.3 | 61 |
| 10 | Review of research progress on soil moisture sensor technology. International Journal of Agricultural and Biological Engineering, 2021, 14, 32-42. | 0.6 | 42 |
| 11 | Recent progress on water vapor adsorption equilibrium by metal-organic frameworks for heat transformation applications. International Communications in Heat and Mass Transfer, 2021, 124, 105242. | 5.6 | 33 |
| 12 | Artificial Intelligence for the Prediction of the Thermal Performance of Evaporative Cooling Systems. Energies, 2021, 14, 3946. | 3.1 | 25 |
| 13 | Investigating Applicability of Evaporative Cooling Systems for Thermal Comfort of Poultry Birds in Pakistan. Applied Sciences (Switzerland), 2020, 10, 4445. | 2.5 | 22 |
| 14 | Effects of the COVID-19 Pandemic on Food Security and Agriculture in Iran: A Survey. Sustainability, 2021, 13, 10103. | 3.2 | 22 |
| 15 | IoT-Based Sensor Data Fusion for Determining Optimality Degrees of Microclimate Parameters in Commercial Greenhouse Production of Tomato. Sensors, 2020, 20, 6474. | 3.8 | 21 |
| 16 | Membership function model for defining optimality of vapor pressure deficit in closed-field cultivation of tomato. Acta Horticulturae, 2017, , 281-290. | 0.2 | 20 |
| 17 | Measuring optimality degrees of microclimate parameters in protected cultivation of tomato under tropical climate condition. Measurement: Journal of the International Measurement Confederation, 2017, 106, 236-244. | 5.0 | 19 |
| 18 | An Overview of Antibiotic Resistance and Abiotic Stresses Affecting Antimicrobial Resistance in Agricultural Soils. International Journal of Environmental Research and Public Health, 2022, 19, 4666. | 2.6 | 19 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Applications of solar PV systems in agricultural automation and robotics. , 2020, , 191-235. | | 18 |
| 20 | Dynamic Evaluation of Desiccant Dehumidification Evaporative Cooling Options for Greenhouse Air-Conditioning Application in Multan (Pakistan). Energies, 2021, 14, 1097. | 3.1 | 17 |
| 21 | Fundamental Research on Unmanned Aerial Vehicles to Support Precision Agriculture in Oil Palm Plantations. , 0, , . | | 16 |
| 22 | UAV Oblique Imagery with an Adaptive Micro-Terrain Model for Estimation of Leaf Area Index and Height of Maize Canopy from 3D Point Clouds. Remote Sensing, 2022, 14, 585. | 4.0 | 16 |
| 23 | Robotic Harvesting of Fruiting Vegetables: A Simulation Approach in V-REP, ROS and MATLAB. , 0, , . | | 15 |
| 24 | Simulation software and virtual environments for acceleration of agricultural robotics: Features highlights and performance comparison. International Journal of Agricultural and Biological Engineering, 2018, 11, 12-20. | 0.6 | 15 |
| 25 | Pollution Characteristics of Particulate Matter (PM2.5 and PM10) and Constituent Carbonaceous Aerosols in a South Asian Future Megacity. Applied Sciences (Switzerland), 2020, 10, 8864. | 2.5 | 13 |
| 26 | Impact of Camera Viewing Angle for Estimating Leaf Parameters of Wheat Plants from 3D Point Clouds. Agriculture (Switzerland), 2021, 11, 563. | 3.1 | 12 |
| 27 | Precision Agriculture Technologies for Management of Plant Diseases. Sustainability in Plant and Crop Protection, 2020, , 259-278. | 0.4 | 12 |
| 28 | Investigating Solid and Liquid Desiccant Dehumidification Options for Room Air-Conditioning and Drying Applications. Sustainability, 2020, 12, 10582. | 3.2 | 11 |
| 29 | Simulating Cotton Growth and Productivity Using AquaCrop Model under Deficit Irrigation in a Semi-Arid Climate. Agriculture (Switzerland), 2022, 12, 242. | 3.1 | 11 |
| 30 | Scientific Irrigation Scheduling for Sustainable Production in Olive Groves. Agriculture (Switzerland), 2022, 12, 564. | 3.1 | 10 |
| 31 | Adaptive Management Framework for Evaluating and Adjusting Microclimate Parameters in Tropical Greenhouse Crop Production Systems. , 2017, , . | | 9 |
| 32 | Investigation of Energy Consumption and Associated CO2 Emissions for Wheatâ€"Rice Crop Rotation Farming. Energies, 2021, 14, 5094. | 3.1 | 9 |
| 33 | Greenhouse Automation Using Wireless Sensors and IoT Instruments Integrated with Artificial Intelligence. , 0, , . | | 8 |
| 34 | An overview of the System of Rice Intensification for Paddy Fields of Malaysia. Indian Journal of Science and Technology, 2018, 11, 1-16. | 0.7 | 7 |
| 35 | Modification of colorimetric method based digital soil test kit for determination of macronutrients in oil palm plantation. International Journal of Agricultural and Biological Engineering, 2020, 13, 188-197. | 0.6 | 7 |
| 36 | Effect of 1-Methyl Cyclopropane and Modified Atmosphere Packaging on the Storage of Okra (Abelmoschus esculentus L.): Theory and Experiments. Sustainability, 2020, 12, 7547. | 3.2 | 6 |

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|---|---------|----|-----------|
| 37 | Using SPOT-7 for Nitrogen Fertilizer Management in Oil Palm. Agriculture (Switzerland), 2020, 10, 133. | 3.1 | 6 |
| 38 | Free Discharge of Subsurface Drainage Effluent: An Alternate Design of the Surface Drain System in Pakistan. Sustainability, 2021, 13, 4080. | 3.2 | 6 |
| 39 | Evaluating Evaporative Cooling Assisted Solid Desiccant Dehumidification System for Agricultural Storage Application. Sustainability, 2022, 14, 1479. | 3.2 | 6 |
| 40 | Comprehensive Evaluation of Soil Moisture Sensing Technology Applications Based on Analytic Hierarchy Process and Delphi. Agriculture (Switzerland), 2021, 11, 1116. | 3.1 | 4 |
| 41 | Greenhouse Crop Simulation Models and Microclimate Control Systems, A Review. , 0, , . |  | 3 |
| 42 | Temperature and Humidity Control for the Next Generation Greenhouses: Overview of Desiccant and Evaporative Cooling Systems. , 0, , . |  | 2 |
| 43 | Effect of In Vitro Digestion on the Antioxidant and Angiotensin-Converting Enzyme Inhibitory Potential of Buffalo Milk Processed Cheddar Cheese. Foods, 2021, 10, 1661. | 4.3 | 2 |
| 44 | Evaluating system of rice intensification using a modified transplanter: A smart farming solution toward sustainability of paddy fields in Malaysia. International Journal of Agricultural and Biological Engineering, 2019, 12, 54-67. | 0.6 | 2 |
| 45 | An Overview of Soil Moisture and Salinity Sensors for Digital Agriculture Applications. , 0, , . |  | 2 |
| 46 | Machine Learning for Determining Interactions between Air Pollutants and Environmental Parameters in Three Cities of Iran. Sustainability, 2022, 14, 8027. | 3.2 | 2 |
| 47 | Digital growth response maps for assessment of cooling requirement in greenhouse production of tomato. Acta Horticulturae, 2017, , 117-124. | 0.2 | 1 |
| 48 | Development of a Field Robot Platform for Mechanical Weed Control in Greenhouse Cultivation of Cucumber. , 0, , . |  | 1 |
| 49 | Investigation of carbon based adsorbents for the development of thermally-driven adsorption cooling systems. IOP Conference Series: Materials Science and Engineering, 2018, 414, 012004. | 0.6 | 0 |
| 50 | Digital Agriculture and Intelligent Farming Business Using Information and Communication Technology: A Survey. , 0, , . |  | 0 |