

Simon Pearson

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

3,132
citations

279487

23
h-index

197535

49
g-index

58
all docs

58
docs citations

58
times ranked

3186
citing authors

#	ARTICLE	IF	CITATIONS
1	Tea Chrysanthemum Detection by Leveraging Generative Adversarial Networks and Edge Computing. <i>Frontiers in Plant Science</i> , 2022, 13, 850606.	1.7	2
2	Robotics and Autonomous Systems for Net Zero Agriculture. <i>Current Robotics Reports</i> , 2022, 3, 57-64.	5.1	13
3	Artificial intelligence and ethics within the food sector: Developing a common language for technology adoption across the supply chain. <i>Trends in Food Science and Technology</i> , 2022, 125, 33-42.	7.8	24
4	Applications of robotic and solar energy in precision agriculture and smart farming. , 2022, , 351-390.		4
5	The agricultural occupations landscape in view of work automation. , 2021, , 289-348.		1
6	Optical and thermal properties of commercial polymer film, modeling the albedo effect. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50581.	1.3	1
7	Responsible development of autonomous robotics in agriculture. <i>Nature Food</i> , 2021, 2, 306-309.	6.2	58
8	Orchard Mapping with Deep Learning Semantic Segmentation. <i>Sensors</i> , 2021, 21, 3813.	2.1	27
9	Using Additional Moderator to Control the Footprint of a COSMOS Rover for Soil Moisture Measurement. <i>Water Resources Research</i> , 2021, 57, e2020WR028478.	1.7	7
10	An autoencoder wavelet based deep neural network with attention mechanism for multi-step prediction of plant growth. <i>Information Sciences</i> , 2021, 560, 35-50.	4.0	27
11	Deep Learning Based Prediction on Greenhouse Crop Yield Combined TCN and RNN. <i>Sensors</i> , 2021, 21, 4537.	2.1	50
12	A trust framework for digital food systems. <i>Nature Food</i> , 2021, 2, 543-545.	6.2	11
13	Optimal Deployment of Solar Insecticidal Lamps Over Constrained Locations in Mixed-Crop Farmlands. <i>IEEE Internet of Things Journal</i> , 2021, 8, 13095-13114.	5.5	21
14	The Future of Agricultural Jobs in View of Robotization. <i>Sustainability</i> , 2021, 13, 12109.	1.6	14
15	Considering the ethical implications of digital collaboration in the Food Sector. <i>Patterns</i> , 2021, 2, 100335.	3.1	7
16	Kriging-based robotic exploration for soil moisture mapping using a cosmic-ray sensor. <i>Journal of Field Robotics</i> , 2020, 37, 122-136.	3.2	14
17	Power and energy analysis for a commercial retail refrigeration system responding to a static demand side response. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 117, 105645.	3.3	9
18	The use of light spectrum blocking films to reduce populations of <i>Drosophila suzukii</i> Matsumura in fruit crops. <i>Scientific Reports</i> , 2020, 10, 15358.	1.6	10

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19	Agricultural Workforce Crisis in Light of the COVID-19 Pandemic. Sustainability, 2020, 12, 8212.	1.6	69
20	Mobile Robotics in Agricultural Operations: A Narrative Review on Planning Aspects. Applied Sciences (Switzerland), 2020, 10, 3453.	1.3	61
21	The impact of coastal flooding on agriculture: A case study of Lincolnshire, United Kingdom. Land Degradation and Development, 2020, 31, 1545-1559.	1.8	28
22	Mobile Real-Time Grasshopper Detection and Data Aggregation Framework. Scientific Reports, 2020, 10, 1150.	1.6	10
23	Nemesyst: A hybrid parallelism deep learning-based framework applied for internet of things enabled food retailing refrigeration systems. Computers in Industry, 2019, 113, 103133.	5.7	18
24	Robotics and labour in agriculture. A context consideration. Biosystems Engineering, 2019, 184, 111-121.	1.9	150
25	A Case-Based Economic Assessment of Robotics Employment in Precision Arable Farming. Agronomy, 2019, 9, 175.	1.3	33
26	The challenges posed by global broadacre crops in delivering smart agri-robotic solutions: A fundamental rethink is required. Global Food Security, 2019, 23, 116-124.	4.0	56
27	Are Distributed Ledger Technologies the panacea for food traceability?. Global Food Security, 2019, 20, 145-149.	4.0	135
28	Evaluation of Fengyun-3C Soil Moisture Products Using In-Situ Data from the Chinese Automatic Soil Moisture Observation Stations: A Case Study in Henan Province, China. Water (Switzerland), 2019, 11, 248.	1.2	14
29	Analysis of the brightness temperature features of the lunar surface using 37 GHz channel data from the Chang'E-2 microwave radiometer. Advances in Space Research, 2019, 63, 750-765.	1.2	19
30	Energy-Efficient Design and Control of a Vibro-Driven Robot. , 2018, , .		13
31	Contact Detection and Size Estimation Using a Modular Soft Gripper with Embedded Flex Sensors. , 2018, , .		5
32	RASberry - Robotic and Autonomous Systems for Berry Production. Mechanical Engineering, 2018, 140, S14-S18.	0.0	12
33	3-D Soil Compaction Mapping Through Kriging-Based Exploration With a Mobile Robot. IEEE Robotics and Automation Letters, 2018, 3, 3066-3072.	3.3	23
34	Impact of Demand Side Response on a Commercial Retail Refrigeration System. Energies, 2018, 11, 371.	1.6	10
35	Earth Observation-Based Operational Estimation of Soil Moisture and Evapotranspiration for Agricultural Crops in Support of Sustainable Water Management. Sustainability, 2018, 10, 181.	1.6	44
36	Machine Learning in Agriculture: A Review. Sensors, 2018, 18, 2674.	2.1	1,392

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37	3D-vision based detection, localization, and sizing of broccoli heads in the field. <i>Journal of Field Robotics</i> , 2017, 34, 1505-1518.	3.2	54
38	Modelling of Thermostatically Controlled Loads to Analyse the Potential of Delivering FFR DSR with a Large Network of Compressor Packs. , 2017, , .		2
39	Can you pick a broccoli? 3D-vision based detection and localisation of broccoli heads in the field. , 2016, , .		10
40	Relationship between temperature and cauliflower (<i>Brassica oleracea</i> L. var. <i>botrytis</i>) growth and development after curd initiation. <i>Plant Growth Regulation</i> , 2007, 52, 61-72.	1.8	4
41	Spectral Filters and Temperature Effects on the Growth and Development of Chrysanthemums under Low Light Integral. <i>Plant Growth Regulation</i> , 2006, 49, 61-68.	1.8	22
42	Development of real-time PCR (TaqMan [®]) assays for the detection and quantification of <i>Botrytis cinerea</i> in planta. <i>Plant Physiology and Biochemistry</i> , 2005, 43, 890-899.	2.8	106
43	Light quality and temperature effects on antirrhinum growth and development. <i>Journal of Zhejiang University Science B</i> , 2005, 6B, 119-124.	0.4	21
44	The effects of far red spectral filters and plant density on the growth and development of chrysanthemums. <i>Scientia Horticulturae</i> , 2004, 102, 335-341.	1.7	25
45	Improving quantitative flowering models through a better understanding of the phases of photoperiod sensitivity. <i>Journal of Experimental Botany</i> , 2001, 52, 655-662.	2.4	27
46	Environmental regulation of flowering time in heliotrope (<i>Heliotropium arborescens</i> L. cv. Marine). <i>Scientia Horticulturae</i> , 2000, 85, 231-241.	1.7	3
47	Substantial UV-B-mediated induction of essential oils in sweet basil (<i>Ocimum basilicum</i> L.). <i>Phytochemistry</i> , 1999, 51, 507-510.	1.4	139
48	The Effects of Temperature and Light Integral on the Phases of Photoperiod Sensitivity in <i>Petunia</i> —hybrida. <i>Annals of Botany</i> , 1999, 83, 263-269.	1.4	42
49	11 Physiology. <i>Developments in Plant Genetics and Breeding</i> , 1999, , 359-373.	0.6	2
50	Inflorescence commitment and subsequent development differ in their responses to temperature and photoperiod in <i>Osteospermum jucundum</i> . <i>Physiologia Plantarum</i> , 1998, 104, 225-231.	2.6	5
51	The Effects of Temperature, Photoperiod and Light Integral on the Time to Flowering of Pansy cv. Universal Violet (<i>Viola</i> — <i>wittrockiana</i> Gams.). <i>Annals of Botany</i> , 1997, 80, 107-112.	1.4	30
52	Radiation Transmission and Fluorescence of Nine Greenhouse Cladding Materials. <i>Biosystems Engineering</i> , 1995, 62, 61-69.	0.4	68
53	A model of the effects of temperature on the growth and development of cauliflower (<i>Brassica</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.7	30
54	Framing food security and food loss statistics for incisive supply chain improvement and knowledge transfer between Kenyan, Indian and United Kingdom food manufacturers. <i>Emerald Open Research</i> , 0, 2, 12.	0.0	3