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Horticultural lighting present and future challenges

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Lighting Research and Technology, 2012, 44, 427-437.

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#	Paper	IF	Citations
45	Horticultural lighting [p]resent and future challenges. <i>Lighting Research and Technology</i> , 2012 , 44, 427-437		42
44	LED illumination affects bioactive compounds in romaine baby leaf lettuce. <i>Journal of the Science of Food and Agriculture</i> , 2013 , 93, 3286-91	4.3	78
43	Improvement of light uniformity by lighting arrangement for standardized crop production. <i>Journal of Central South University</i> , 2014 , 21, 4311-4319	2.1	2
42	Policy and status of light pollution management in Korea. <i>Lighting Research and Technology</i> , 2014 , 46, 78-88	2	22
41	Lighting systems evaluation for indoor living walls. <i>Urban Forestry and Urban Greening</i> , 2014 , 13, 475-483	5.4	12
40	Application of Light-Emitting Diodes in Food Production, Postharvest Preservation, and Microbiological Food Safety. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2015 , 14, 719-740	16.4	115
39	Photobioreactors in Life Support Systems. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016 , 153, 143-84	1.7	3
38	Growth and pigment content of <i>Gracilaria tikvahiae</i> McLachlan under fluorescent and LED lighting. <i>Aquaculture</i> , 2015 , 436, 52-57	4.4	36
37	Productivity and photosynthetic characteristics of heat-resistant and heat-sensitive recombinant inbred lines (RILs) of <i>Lactuca sativa</i> in response to different durations of LED lighting. <i>Acta Horticulturae</i> , 2016 , 187-194	0.3	3
36	Phosphors with a 660-nm-Featured Emission for LED/LD Lighting in Horticulture. 2016 , 83-117		1
35	Effect of vegetational shade and its components on stomatal responses to red, blue and green light in two deciduous tree species with different shade tolerance. <i>Environmental and Experimental Botany</i> , 2016 , 121, 94-101	5.9	13
34	Microalgae Biotechnology. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016 ,	1.7	13
33	Impact of light-emitting diode irradiation on photosynthesis, phytochemical composition and mineral element content of lettuce cv. Grizzly. <i>Photosynthetica</i> , 2017 , 55, 85-95	2.2	68
32	Light use efficiency for vegetables production in protected and indoor environments. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	45
31	Lanthanide-Activated Phosphors Based on 4f-5d Optical Transitions: Theoretical and Experimental Aspects. <i>Chemical Reviews</i> , 2017 , 117, 4488-4527	68.1	494
30	Growth light provision for indoor greenery: A case study. <i>Energy and Buildings</i> , 2017 , 144, 207-217	7	11
29	Light Emitting Diodes for Agriculture. 2017 ,		24

28	Light-Emitting Diodes in Postharvest Quality Preservation and Microbiological Food Safety. 2017 , 191-235		3
27	Precision lighting for controlled closed urban horticultural environments with emphasis on the use of LED technology. <i>Acta Horticulturae</i> , 2017 , 415-418	0.3	1
26	The Impact of Spectral Composition of White LEDs on Spinach (<i>Spinacia oleracea</i>) Growth and Development. <i>Energies</i> , 2017 , 10, 1383	3.1	9
25	Effects of LED light spectra on lettuce growth and nutritional composition. <i>Lighting Research and Technology</i> , 2018 , 50, 880-893	2	13
24	Supplemental upward LED lighting for growing romaine lettuce (<i>Lactuca sativa</i>) in a plant factory: cost performance by light intensity and different light spectra. <i>Acta Horticulturae</i> , 2018 , 623-630	0.3	1
23	Properties Design: Prediction and Experimental Validation of the Luminescence Properties of a New Eu -Based Phosphor. <i>Chemistry - A European Journal</i> , 2018 , 24, 16276-16281	4.8	7
22	Energy and economic analysis for the design of greenhouses with semi-transparent photovoltaic cladding. <i>Renewable Energy</i> , 2019 , 131, 1274-1287	8.1	29
21	The growth and development of cress (<i>)</i> affected by blue and red light. <i>Heliyon</i> , 2019 , 5, e02109	3.6	8
20	. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 3033-3042	8.9	10
19	LED Lighting Systems for Horticulture: Business Growth and Global Distribution. <i>Sustainability</i> , 2020 , 12, 7516	3.6	15
18	Real-Time Sensing and Control of Integrative Horticultural Lighting Systems. <i>J</i> , 2020 , 3, 266-274	1.9	6
17	Light-Quality Manipulation to Control Plant Growth and Photomorphogenesis in Greenhouse Horticulture: The State of the Art and the Opportunities of Modern LED Systems. <i>Journal of Plant Growth Regulation</i> , 1	4.7	30
16	Effect of Light-Emitting Diodes (LEDs) on Some Physical and Bioactive Compounds of [Leberg] Lettuce (<i>Lactuca Sativa</i> L.). <i>Acta Biologica Marisiensis</i> , 2021 , 4, 21-30	0.6	
15	Morpho-Physiological Responses of L. to the LED-Sourced CoeLux System. <i>Plants</i> , 2021 , 10,	4.5	0
14	Increasing greenhouse production by spectral-shifting and unidirectional light-extracting photonics. <i>Nature Food</i> , 2021 , 2, 434-441	14.4	12
13	BioEnPro4TO: advanced indoor and vertical farm models in circular economy, innovative solutions for sustainable urban farming. <i>Acta Horticulturae</i> , 2021 , 229-234	0.3	0
12	Tomato production in hydroponic system using different agrofils as greenhouse cover. <i>Horticultura Brasileira</i> , 2020 , 38, 58-64	0.9	2
11	How Do White LEDs Spectra Affect the Fresh Weight of Lettuce Grown under Artificial Lighting in a Plant Factory? A Statistical Approach. <i>Agricultural Sciences</i> , 2019 , 10, 957-974	0.4	3

10	Light-Emitting Diodes (LEDs) for Miniature Hydroponic Lettuce. <i>Optics and Photonics Journal</i> , 2013 , 03, 74-77	0.3	32
9	Agricultural and Horticultural Lighting. 2014 , 1-14		1
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7	Light-Emitting Diode for the Inactivation of Microorganisms on Fruits and Vegetables. <i>Microorganisms for Sustainability</i> , 2019 , 259-271	1.1	0
6	Comparison of LED and HPS illumination effects on cultivation of red pak choi microgreens under indoors and greenhouse conditions. <i>Acta Horticulturae</i> , 2020 , 395-402	0.3	2
5	Measuring and reporting lighting characteristics important for controlled environment plant production. <i>Acta Horticulturae</i> , 2022 , 249-254	0.3	0
4	Bioeconomic evaluation of extended season and year-round tomato production in Norway using supplemental light. <i>Agricultural Systems</i> , 2022 , 198, 103391	6.1	1
3	Photoreceptors gene expression of <i>Arabidopsis thaliana</i> grown with biophilic LED-sourced lighting systems. <i>PLoS ONE</i> , 2022 , 17, e0269868	3.7	1
2	Not All Light Spectra Were Created Equal: Can We Harvest Light for Optimum Food-Energy Co-Generation?. 2022 , 10,		0
1	Light spectra of biophilic LED-sourced system modify essential oils composition and plant morphology of <i>Mentha piperita</i> L. and <i>Ocimum basilicum</i> L. 14,		0