

Claudia Hernandez Aguilar

List of Publications by Year in descending order

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69
papers

510
citations

686830

13
h-index

839053

18
g-index

70
all docs

70
docs citations

70
times ranked

386
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser irradiation effects on maize seed field performance. <i>Seed Science and Technology</i> , 2006, 34, 193-197.	0.6	35
2	Photoacoustic Spectroscopy in the Optical Characterization of Foodstuff: A Review. <i>Journal of Spectroscopy</i> , 2019, 2019, 1-34.	0.6	35
3	Lentil sprouts: a nutraceutical alternative for the elaboration of bread. <i>Journal of Food Science and Technology</i> , 2020, 57, 1817-1829.	1.4	26
4	Bioestimulación en semillas y plantas. <i>Gayana - Botanica</i> , 2016, 73, 132-149.	0.3	19
5	The Optical Absorption Coefficient of Maize Seeds Investigated by Photoacoustic Spectroscopy. <i>Food Biophysics</i> , 2011, 6, 481-486.	1.4	18
6	Changes in chemical, viscoelastic, and textural properties of nixtamalized dough with nejayote. <i>LWT - Food Science and Technology</i> , 2015, 61, 496-502.	2.5	18
7	Thermal Effects of Laser Irradiation on Maize Seeds. <i>International Agrophysics</i> , 2015, 29, 147-156.	0.7	17
8	Evaluation of Wheat and Maize Seeds by Photoacoustic Microscopy. <i>International Journal of Thermophysics</i> , 2009, 30, 2036-2043.	1.0	16
9	Interactive system for painting artworks by regions using a robot. <i>Robotics and Autonomous Systems</i> , 2019, 121, 103263.	3.0	16
10	Characterization of Bean Seeds, Germination, and Phenolic Compounds of Seedlings by UV-C Radiation. <i>Journal of Plant Growth Regulation</i> , 2021, 40, 642-655.	2.8	15
11	Photoacoustic spectroscopy applied to the study of the influence of laser irradiation on corn seeds. <i>European Physical Journal Special Topics</i> , 2005, 125, 853-855.	0.2	14
12	Optical absorption coefficient of laser irradiated wheat seeds determined by photoacoustic spectroscopy. <i>European Physical Journal: Special Topics</i> , 2008, 153, 519-522.	1.2	14
13	SEMILLA DE MAÍZ BAJO LA INFLUENCIA DE IRRADIACIÓN DE CAMPOS ELECTROMAGNÉTICOS. <i>Revista Fitotecnia Mexicana</i> , 2010, 33, 183.	0.0	13
14	Seguimiento de Egresados en Tres Programas de Maestría en una Escuela del Instituto Politécnico Nacional en México. <i>Formacion Universitaria</i> , 2012, 5, 41-52.	0.2	11
15	Characterization of Maize Grains with Different Pigmentation Investigated by Photoacoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2014, 35, 1933-1939.	1.0	11
16	The Optical Absorption Coefficient of Barley Seeds Investigated by Photoacoustic Spectroscopy and Their Effects by Laser Biostimulation. <i>International Journal of Thermophysics</i> , 2015, 36, 2389-2400.	1.0	11
17	Study of Thermal and Structural Properties of Starch Granules from Different Maize Genotypes. <i>Food Biophysics</i> , 2015, 10, 19-24.	1.4	11
18	The Optical Absorption Coefficient of Bean Seeds Investigated Using Photoacoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2015, 36, 835-843.	1.0	11

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19	Specific heat of vegetable oils as a function of temperature obtained by adiabatic scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 523-531.	2.0	11
20	Determination of the Dependence of Thermal Diffusivity with Moringa Concentration by Thermal Lens as a Sensitive Experimental Technique. <i>International Journal of Thermophysics</i> , 2020, 41, 105.	1.0	11
21	Photoacoustic characterization of wheat bread mixed with Moringa oleifera.. <i>Current Research in Food Science</i> , 2021, 4, 521-531.	2.7	11
22	Absorption Peaks: $\hat{1}\pm, \hat{1}^2, \hat{1}^3$ and Their Covariance with Age and Hemoglobin in Human Blood Samples Using Photoacoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2012, 33, 1827-1833.	1.0	10
23	Sustainability assessment of traditional maize (<i>Zea mays</i> L.) agroecosystem in Sierra Norte of Puebla, Mexico. <i>Agroecology and Sustainable Food Systems</i> , 2018, 42, 383-406.	1.0	10
24	Characterization of seeds with different moisture content by photoacoustic microscopy. <i>Journal of Physics: Conference Series</i> , 2010, 214, 012060.	0.3	9
25	Alternative Method to Characterize Corn Grain by Means of Photoacoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2013, 34, 1540-1548.	1.0	9
26	Effect of Nixtamalized Maize with Lime Water (Nejayote) on Rheological and Microbiological Properties of Masa. <i>Journal of Food Processing and Preservation</i> , 2017, 41, e12748.	0.9	9
27	The carotenoid content in seedlings of maize seeds irradiated by a 650nm diode laser: Qualitative photoacoustic study. <i>European Physical Journal: Special Topics</i> , 2008, 153, 515-518.	1.2	8
28	Thermal and Tribological Properties of Jatropha Oil as Additive in Commercial Oil. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	8
29	Photoacoustic Spectroscopy in the Characterization of Bread with Turmeric Addition. <i>Food and Bioprocess Technology</i> , 2020, 13, 2104-2119.	2.6	7
30	Thermal Changes of Maize Seed by Laser Irradiation. <i>International Journal of Thermophysics</i> , 2015, 36, 2401-2409.	1.0	6
31	Statistical Analysis of Photopyroelectric Signals using Histogram and Kernel Density Estimation for differentiation of Maize Seeds. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	1.0	6
32	Photothermal Techniques Applied to the Thermal and Optical Characterization of Curcuma longa. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	6
33	Thermal Effusivity of Vegetable Oils Obtained by a Photothermal Technique. <i>International Journal of Thermophysics</i> , 2014, 35, 1940-1945.	1.0	5
34	Depth Profiles in Maize (<i>Zea mays</i> L.) Seeds Studied by Photoacoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2015, 36, 891-899.	1.0	5
35	Photoacoustic Determination of Non-radiative Relaxation Time of Absorbing Centers in Maize Seeds. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	5
36	Tissue Damage, Temperature, and pH Induced by Different Electrode Arrays on Potato Pieces (<i>Solanum</i>)	1.3	5

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37	Kolmogorov-Smirnov Test for Statistical Characterization of Photopyroelectric Signals Obtained from Maize Seeds. <i>International Journal of Thermophysics</i> , 2019, 40, 1.	1.0	5
38	Physical and chemical characterization of masa and tortillas from parental lines, crosses, and one hybrid. <i>International Agrophysics</i> , 2017, 31, 129-138.	0.7	4
39	Curcuma Longa Treatment Effect on Blood Samples of Rat with Hepatic Damage: A Photoacoustic Spectroscopy Application. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	4
40	Biophysical methods used to generate tolerance to drought stress in seeds and plants: a review. <i>International Agrophysics</i> , 2022, 35, 389-410.	0.7	4
41	Thermal Properties of Jojoba Oil Between 20°C and 45°C . <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	3
42	Characterization of Aged Lettuce and Chard Seeds by Photothermal Techniques. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	1.0	3
43	Evolution and characteristics of the transdisciplinary perspective in research: a literature review. <i>Transdisciplinary Journal of Engineering & Science</i> , 0, 11, .	0.1	3
44	Thermal Image of Coffee-Seed Germ Obtained by Photoacoustic Microscopy. <i>International Journal of Thermophysics</i> , 2013, 34, 1499-1503.	1.0	2
45	The Optical Absorption Coefficient of Maize Grains Investigated by Photoacoustic Spectroscopy. <i>International Journal of Thermophysics</i> , 2017, 38, 1.	1.0	2
46	Blood optical absorption of rats with hepatic damage and turmeric treatment: Methemoglobin analysis. <i>Journal of Molecular Liquids</i> , 2019, 291, 111310.	2.3	2
47	Optical properties of textile materials added with UV protective biomaterials. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	2
48	Designing a horticultural intervention to improve food security: evaluation of mulching practices using sustainability indicators. <i>Agroecology and Sustainable Food Systems</i> , 2020, 44, 1212-1242.	1.0	2
49	Transdisciplinary Methodological Option for Initial Research Process: Training of Researchers. <i>Transdisciplinary Journal of Engineering & Science</i> , 0, 9, .	0.1	2
50	Study of Mineral-Based oils with <i>Jatropha curcas</i> L. as Bio-Additive Through Thermal and Kinematic Viscosity Properties. <i>International Journal of Thermophysics</i> , 2022, 43, 1.	1.0	2
51	Changes in masa and tortillas obtained from maize irradiated and nixtamalized with nejayote. <i>International Agrophysics</i> , 2018, 32, 387-394.	0.7	2
52	Induced changes of phenolic compounds in turmeric bread by UV-C radiation. <i>Journal of Food Measurement and Characterization</i> , 2022, 16, 1012-1028.	1.6	2
53	Caracterización colorimétrica, textura y calidad sanitaria de panes adicionados con maíces criollos y <i>Curcuma longa</i> . <i>Superficies Y Vacío</i> , 0, 35, .	0.2	2
54	Obtaining thermal images of creole corn by means of photoacoustic microscopy. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	2

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55	Analysis of Maize Seed Germs by Photoacoustic Microscopy and Photopyroelectric Technique. International Journal of Thermophysics, 2013, 34, 979-985.	1.0	1
56	Quantum mechanical model for the anticarcinogenic effect of extremely-low-frequency electromagnetic fields on early chemical hepatocarcinogenesis. Physical Review E, 2017, 95, 022416.	0.8	1
57	Thermal Imaging Using Photoacoustic Microscopy with Different Excitation Wavelengths. International Journal of Thermophysics, 2019, 40, 1.	1.0	1
58	Thermal analysis and artificial vision of laser irradiation on corn. SN Applied Sciences, 2020, 2, 1.	1.5	1
59	Optical absorption spectra of germinated seedlings from seeds exposed to vehicle polluting gases. SN Applied Sciences, 2020, 2, 1.	1.5	1
60	Statistical methods for the analysis of thermal images obtained from corn seeds. SN Applied Sciences, 2021, 3, 1.	1.5	1
61	Relationship of airports, population, competitiveness indexes and human development with confirmed and deceased cases by COVID-19: Need for transdisciplinary systemic decisions.. Transdisciplinary Journal of Engineering & Science, 0, 11, .	0.1	1
62	Fractal Analysis of the Solar Radiation in Mexico City. Applied Mechanics and Materials, 2009, 15, 117-120.	0.2	0
63	Thermal Images of Small Agricultural Seeds Obtained by Photoacoustic and Photopyroelectric Microscopies. International Journal of Thermophysics, 2013, 34, 972-978.	1.0	0
64	Thermal Images of Seeds Obtained at Different Depths by Photoacoustic Microscopy (PAM). International Journal of Thermophysics, 2015, 36, 812-818.	1.0	0
65	Note: Photopyroelectric measurement of thermal effusivity of transparent liquids by a method free of fitting procedures. Review of Scientific Instruments, 2016, 87, 026105.	0.6	0
66	Thermal Effusivity of Human Fluids. International Journal of Thermophysics, 2019, 40, 1.	1.0	0
67	Mã©todos biofÃ©sicos y la ingenierÃ©a: perspectiva sistÃ©mica transdisciplinaria. Ingeniare, 2013, 21, 311-313.	0.1	0
68	Preferencias del consumidor de productos alimenticios locales. , 0, , .		0
69	Campo electromagnÃ©tico en plÃ¡ntulas, rendimiento y calidad de maÃ­z en condiciones de campo. Revista Mexicana De Ciencias Agrícolas, 2019, 10, 629-642.	0.0	0