

# Ernesto Marin

## List of Publications by Year in descending order

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121  
papers

1,180  
citations

361413

20  
h-index

552781

26  
g-index

121  
all docs

121  
docs citations

121  
times ranked

956  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.1	2
2	Characterization of Cuban and Brazilian natural zeolites by photoacoustic spectroscopy and electron paramagnetic resonance. <i>Anais Da Academia Brasileira De Ciencias</i> , 2022, 94, e20200512.	0.8	0
3	Monitoring the advanced oxidation of paracetamol using ZnO films via capillary electrophoresis. <i>Journal of Water Process Engineering</i> , 2021, 41, 102051.	5.6	7
4	Ultrasound irradiation effect on photosynthesis and transpiration of aquatic liriun plants. <i>International Journal of Radiation Biology</i> , 2021, 97, 1617-1623.	1.8	1
5	Thermal impedance. <i>European Journal of Physics</i> , 2021, 42, 065101.	0.6	2
6	Rodlike Particles of Polydopamine-CdTe Quantum Dots: An Actuator As a Photothermal Agent and Reactive Oxygen Species-Generating Nanoplatform for Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 42357-42369.	8.0	7
7	Evaluation of thin films intermixing by photoacoustic spectroscopy. <i>Thin Solid Films</i> , 2021, 735, 138871.	1.8	3
8	A multi-thermal-lens approach to evaluation of multi-pass probe beam configuration in thermal lens spectrometry. <i>Analytica Chimica Acta</i> , 2020, 1100, 182-190.	5.4	19
9	Application of Photoacoustic Spectroscopy and Phase-Resolved Technique to the Study of Photoprotective Pigments in Golden Delicious Apple ( <i>Malus domestica</i> ). <i>International Journal of Thermophysics</i> , 2020, 41, 1.	2.1	1
10	Measurement of the thermal conductivity of fluids using laser spot lock-in thermography. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 158, 107740.	5.0	6
11	Thermal diffusivity of heptane-isooctane mixtures. <i>Thermochimica Acta</i> , 2020, 689, 178616.	2.7	4
12	Comparison between low optical absorption models for pump-probe transient thermal lens spectroscopy: a theoretical and experimental study. <i>Laser Physics</i> , 2020, 30, 125701.	1.2	5
13	Phase resolved method using the Hill-Climbing Metaheuristic Algorithm applied for the spectral separation from photoacoustic spectra of chilli pepper skin and yellow corn pericarp. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 138, 143-148.	5.0	5
14	Application of thermal lens microscopy (TLM) for measurement of Cr(VI) traces in wastewater. <i>Journal of Environmental Management</i> , 2019, 232, 305-309.	7.8	7
15	Trace detection and photothermal spectral characterization by a tuneable thermal lens spectrometer with white-light excitation. <i>Talanta</i> , 2018, 183, 158-163.	5.5	26
16	Absorption Spectra of Ethanol and Water Using a Photothermal Lens Spectrophotometer. <i>Applied Spectroscopy</i> , 2018, 72, 1069-1073.	2.2	10
17	Thermal diffusivity measurement in thin metallic filaments using the mirage method with multiple probe beams and a digital camera. <i>Review of Scientific Instruments</i> , 2018, 89, 024904.	1.3	2
18	Thermal transport properties of heptane-isooctane mixtures. <i>Thermochimica Acta</i> , 2018, 666, 190-196.	2.7	6

#	ARTICLE	IF	CITATIONS
19	Thermal Diffusivity Measurement in Thin Metallic Filaments by the Laser Beam Deflection Technique with a Digital Camera and Lock-in Imaging Processing.. , 2018, , .		0
20	In-situ monitoring by thermal lens microscopy of a photocatalytic reduction process of hexavalent chromium. Revista Mexicana De F�sica, 2018, 64, 507-511.	0.4	0
21	Axisymmetric modelling of transient thermal response in solids for application to infrared photothermal radiometry technique. Revista Mexicana De F�sica, 2018, 65, 54-64.	0.4	1
22	High sensitivity thermal lens microscopy: Cr-VI trace detection in water. Talanta, 2017, 170, 260-265.	5.5	22
23	Thermal effusivity measurement of conventional and organic coffee oils via photopyroelectric technique. Food Research International, 2017, 102, 419-424.	6.2	6
24	Densification and microstructure of spark plasma sintered $7\text{YSZ}\text{-Gd}_{2}\text{O}_{3}$ ceramic nano-composites. Journal of Asian Ceramic Societies, 2017, 5, 266-275.	2.3	14
25	Self-normalized inverse photopyroelectric technique with viscous front window for thermal effusivity measurements in liquids. Thermochimica Acta, 2017, 655, 124-128.	2.7	1
26	Study of the Pigments in Colombian Powdered Coffee Using Photoacoustic Spectroscopy. International Journal of Thermophysics, 2017, 38, 1.	2.1	4
27	Measurement of the thermal expansion coefficient of Guadua angustifolia-Kunth using the photoacoustic technique. Journal of Physics: Conference Series, 2016, 687, 012103.	0.4	2
28	Thermal lens microscope sensitivity enhancement using a passive Fabry-Perot-type optical cavity. Laser Physics Letters, 2016, 13, 055702.	1.4	9
29	Thermoacoustic and thermoreflectance imaging of biased integrated circuits: Voltage and temperature maps. Applied Physics Letters, 2016, 109, .	3.3	3
30	Thermal diffusivity measurement by lock-in photothermal shadowgraph method. Journal of Applied Physics, 2016, 119, 164902.	2.5	4
31	Note: Photopyroelectric measurement of thermal effusivity of transparent liquids by a method free of fitting procedures. Review of Scientific Instruments, 2016, 87, 026105.	1.3	0
32	Effect of Azospirillum brasilense and Burkholderia unamae Bacteria on Maize Photosynthetic Activity Evaluated Using the Photoacoustic Technique. International Journal of Thermophysics, 2016, 37, 1.	2.1	3
33	A liquids refractive index spectrometer. Sensors and Actuators B: Chemical, 2016, 229, 249-256.	7.8	10
34	Electropyroelectric technique: A methodology free of fitting procedures for thermal effusivity determination in liquids. Review of Scientific Instruments, 2015, 86, 064902.	1.3	6
35	Implementation of a field programmable gate array-based lock-in amplifier. Measurement: Journal of the International Measurement Confederation, 2015, 69, 31-41.	5.0	21
36	Thermal diffusivity of few-layers graphene measured by an all-optical method. Journal Physics D: Applied Physics, 2015, 48, 465501.	2.8	31

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37	Acoustic Detection of the Magnetocaloric Effect in Gadolinium Thin Films: Influence of the Substrate. <i>International Journal of Thermophysics</i> , 2015, 36, 1099-1105.	2.1	1
38	On the thermal characterization of solids by photoacoustic calorimetry: thermal diffusivity and linear thermal expansion coefficient. <i>Thermochimica Acta</i> , 2015, 614, 52-58.	2.7	16
39	Encapsulation efficiency of CdSe/ZnS quantum dots by liposomes determined by thermal lens microscopy. <i>Biomedical Optics Express</i> , 2015, 6, 3898.	2.9	20
40	Thermal diffusivity measurements in solids by photothermal infrared radiometry: Influence of convection and radiation heat losses. <i>International Journal of Thermal Sciences</i> , 2015, 98, 202-207.	4.9	27
41	Thermoelectric transport properties of CuFeInTe <sub>3</sub> . <i>Journal of Alloys and Compounds</i> , 2015, 651, 490-496.	5.5	9
42	Self-normalized front photopyroelectric technique for thermal diffusivity measurements in liquids. <i>Thermochimica Acta</i> , 2015, 599, 8-12.	2.7	5
43	Photoacoustic analysis of the ultrasonic irradiation effect in the photosynthetic activity in aquatic liriun plants. <i>Applied Radiation and Isotopes</i> , 2014, 83, 268-271.	1.5	3
44	Improvement of an optical fiber sensor for the detection of low concentrations of solutes using the photothermal effect. <i>Thermochimica Acta</i> , 2014, 593, 12-15.	2.7	4
45	Heat transfer monitoring by means of the hot wire technique and finite element analysis software. <i>Applied Radiation and Isotopes</i> , 2014, 83, 264-267.	1.5	2
46	Theoretical description of the photopyroelectric technique in the slanted detector configuration for thermal diffusivity measurements in fluids. <i>Thermochimica Acta</i> , 2014, 582, 101-105.	2.7	2
47	An explanation for anomalous thermal conductivity behaviour in nanofluids as measured using the hot-wire technique. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 085501.	2.8	8
48	Study of the heat transfer in solids using infrared photothermal radiometry and simulation by COMSOL Multiphysics. <i>Applied Radiation and Isotopes</i> , 2014, 83, 260-263.	1.5	7
49	White Light Photothermal Lens Spectrophotometer for the Determination of Absorption in Scattering Samples. <i>Applied Spectroscopy</i> , 2014, 68, 680-685.	2.2	14
50	Optimized configuration of the pyroelectric sensor metal electrodes in the photopyroelectric technique. <i>Applied Physics B: Lasers and Optics</i> , 2013, 110, 65-71.	2.2	2
51	Anisotropic magnetocaloric effect in gadolinium thin films: Magnetization measurements and acoustic detection. <i>Journal of Applied Physics</i> , 2013, 114, 163905.	2.5	15
52	A method for thermal diffusivity measurement in fluids. <i>Review of Scientific Instruments</i> , 2013, 84, 104903.	1.3	10
53	Identification of Plant Growth-Promoting Bacteria Using Titanium Dioxide Photocatalysis-Assisted Photoacoustic Technique. <i>International Journal of Thermophysics</i> , 2013, 34, 1504-1512.	2.1	0
54	A method for heat capacity measurement by photoacoustics. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 1208-1211.	5.0	5

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55	Absolute measurements of thermal effusivity using the electropyroelectric technique. <i>Thermochimica Acta</i> , 2013, 554, 59-62.	2.7	9
56	Physical Properties of Macroporous Tungsten Oxide Thin Films and Their Impact on the Photocurrent Density. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-8.	2.5	7
57	On thermal waves. <i>European Journal of Physics</i> , 2013, 34, L83-L85.	0.6	14
58	Photoacoustic Technique in the Study of Photosynthesis in Aquatic Lirium ( <i>Eichhornia Crassipes</i> ). <i>Materials Research Society Symposia Proceedings</i> , 2012, 1480, 39.	0.1	0
59	On heat transfer through a solid slab heated uniformly and periodically: determination of thermal properties. <i>European Journal of Physics</i> , 2012, 33, 135-148.	0.6	6
60	A hot-wire method based thermal conductivity measurement apparatus for teaching purposes. <i>European Journal of Physics</i> , 2012, 33, 897-906.	0.6	25
61	Stabilization of Joule Heating in the Electropyroelectric Method. <i>International Journal of Thermophysics</i> , 2012, 33, 1924-1933.	2.1	6
62	Thermal-Diffusivity Measurement in Low Thermal-Conductivity Solids by a Transient Heating Method. <i>International Journal of Thermophysics</i> , 2012, 33, 1966-1975.	2.1	5
63	Discrimination of organic coffee via Fourier transform infrared photoacoustic spectroscopy. <i>Journal of the Science of Food and Agriculture</i> , 2012, 92, 2316-2319.	3.5	27
64	An alternative differential method of femtosecond pump-probe examination of materials. <i>Optics Express</i> , 2011, 19, 11290.	3.4	0
65	Time Varying Heat Conduction in Solids. , 2011, , .		2
66	On the heating modulation frequency dependence of the photopyroelectric signal in experiments for liquid thermal characterization. <i>Infrared Physics and Technology</i> , 2011, 54, 449-453.	2.9	3
67	A practical model for the determination of transport parameters in semiconductors. <i>Journal of Materials Science</i> , 2011, 46, 7799-7805.	3.7	0
68	On the heat transfer through a solid slab heated uniformly and continuously on one of its surfaces. <i>European Journal of Physics</i> , 2011, 32, 783-791.	0.6	8
69	On the modulation frequency dependence of the photoacoustic signal for a metal coated glass-liquid system. <i>Open Physics</i> , 2010, 8, .	1.7	6
70	Electropyroelectric technique for measurement of the thermal effusivity of liquids. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 225501.	2.8	20
71	Influence of the thiourea/CdCl <sub>2</sub> concentration ratio used for the chemical bath deposition of CdS thin films, upon the CdS/CdTe interface recombination velocity in CdTe/CdS/glass structures.. <i>Journal of Applied Physics</i> , 2010, 107, 123701.	2.5	6
72	Thermal Diffusivity Measurement in Solids by means of the Photoacoustic Technique. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1242, 1.	0.1	0

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73	Differential sensor in front photopyroelectric technique: II. Experimental. Journal Physics D: Applied Physics, 2009, 42, 125504.	2.8	9
74	Photopyroelectric Calorimeter for Phase Transitions Monitoring: Application to Chocolate. Materials Research Society Symposia Proceedings, 2009, 1242, 1.	0.1	1
75	Thermal Wave Resonator Cavity Applied to the Study of the Thermal Diffusivity of Coffee Infusions. International Journal of Thermophysics, 2009, 30, 1591-1597.	2.1	8
76	Similarity theory and dimensionless numbers in heat transfer. European Journal of Physics, 2009, 30, 439-445.	0.6	16
77	Thermal Characterization of ZnO-DMSO (Dimethyl Sulfoxide) Colloidal Dispersions Using the Inverse Photopyroelectric Technique. Analytical Sciences, 2009, 25, 705-709.	1.6	5
78	Study of the physical properties of Bi doped CdTe thin films deposited by close space vapour transport. Thin Solid Films, 2008, 516, 3818-3823.	1.8	16
79	Differential sensor in front photopyroelectric technique: I. Theory. Journal Physics D: Applied Physics, 2008, 41, 085106.	2.8	6
80	Superficial and In-depth Images of a Biological Sample Using Photopyroelectric Microscopy. AIP Conference Proceedings, 2007, . .	0.4	2
81	The role of thermal properties in periodic time-varying phenomena. European Journal of Physics, 2007, 28, 429-445.	0.6	38
82	Photo-induced charge transfer in Prussian blue analogues as detected by photoacoustic spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 68, 191-197.	3.9	13
83	Microstructure and Thermal Diffusivity of Ceramic Powders. International Journal of Thermophysics, 2007, 28, 1646-1652.	2.1	2
84	A study of the optical absorption in CdTe by photoacoustic spectroscopy. Journal of Materials Science, 2007, 42, 7176-7179.	3.7	14
85	Thermal Physics Concepts: The Role of the Thermal Effusivity. Physics Teacher, 2006, 44, 432-434.	0.3	27
86	Physical properties of Bi doped CdTe thin films grown by the CSVT method. Solar Energy Materials and Solar Cells, 2006, 90, 2228-2234.	6.2	14
87	Specific Heat Measurements by a Thermal Relaxation Method: Influence of Convection and Conduction. International Journal of Thermophysics, 2006, 27, 1859-1872.	2.1	10
88	Specific heat of the Ba <sub>0.7</sub> Sr <sub>0.3</sub> Ti <sub>1-x</sub> Zr <sub>x</sub> O <sub>3</sub> (x=0, 0.03, 0.05, 0.1) ferroelectric ceramics obtained by the temperature relaxation method. Journal of Materials Science, 2006, 41, 6130-6133.	3.7	2
89	Heat capacity measurement in solids by means of the photoacoustic technique. European Physical Journal Special Topics, 2005, 125, 201-203.	0.2	2
90	Hyperbolic heat diffusion in photothermal experiments with solids. European Physical Journal Special Topics, 2005, 125, 365-368.	0.2	7

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91	On the criterion for neglecting convective effects in photoacoustic experiments. European Physical Journal Special Topics, 2005, 125, 165-167.	0.2	1
92	H <sub>2</sub> SO <sub>4</sub> corrosion of API5L-X52 pipeline steel: Thermal diffusivity and microstructure. European Physical Journal Special Topics, 2005, 125, 217-219.	0.2	1
93	On the temperature relaxation method for the measurement of the specific heat capacity of thin solid samples. European Physical Journal Special Topics, 2005, 125, 305-308.	0.2	2
94	Thermal properties of Sr <sub>0,3</sub> Ba <sub>0,7</sub> Ti <sub>1-y</sub> Zr <sub>y</sub> O <sub>3</sub> ferroelectric ceramics: Dependence on sample's porosity. European Physical Journal Special Topics, 2005, 125, 309-311.	0.2	2
95	Dielectric and thermal properties of xPbTiO <sub>3</sub> -(1 - x)SrTiO <sub>3</sub> Polycrystals. Journal of Materials Science, 2004, 39, 1233-1239.	3.7	7
96	Measurement of mass diffusivity in air using thermal wave interference detection. Review of Scientific Instruments, 2003, 74, 433-436.	1.3	8
97	Monitoring of gas diffusion in air using the TWI technique: Thermal diffusivity measurements made easy. Review of Scientific Instruments, 2003, 74, 842-844.	1.3	2
98	A temperature relaxation method for the measurement of the specific heat of solids at room temperature in student laboratories. American Journal of Physics, 2003, 71, 1032-1036.	0.7	12
99	Photoacoustic Determination of Iron in Corn Meal. Analytical Sciences, 2003, 19, 599-602.	1.6	5
100	Monitoring of hydrocarbon vapor diffusion in air using a thermal wave interferometer. Journal of Applied Physics, 2002, 91, 5581-5586.	2.5	9
101	On the wave treatment of the conduction of heat in photothermal experiments with solids. European Journal of Physics, 2002, 23, 523-532.	0.6	17
102	Measurement of the Auger lifetime in GaInAsSb/GaSb heterostructures using the photoacoustic technique. Applied Physics Letters, 2001, 79, 964-966.	3.3	23
103	Measurement of the thermal properties of liquid mixtures using a thermal wave interferometer. Applied Physics B: Lasers and Optics, 2001, 73, 151-155.	2.2	18
104	Characterization of the thermal properties of gases using a thermal wave interferometer. Measurement Science and Technology, 2001, 12, 1949-1955.	2.6	12
105	Application of the thermal wave resonator to the measurement of the thermal diffusivity of gas mixtures. Review of Scientific Instruments, 2001, 72, 1580.	1.3	19
106	On the Use of the Optothermal Window Technique for the Determination of Low Concentrations of Chromium (VI) and Phosphorus in Water. International Journal of Environmental Analytical Chemistry, 2000, 76, 331-344.	3.3	6
107	Study of Nonradiative Recombination Mechanisms in Semiconductors by Photoacoustic Measurements. Physica Status Solidi (B): Basic Research, 2000, 220, 305-309.	1.5	4
108	On the Photoacoustic Characterization of Semiconductors: Influence of Carrier Recombination on the Thermodiffusion, Thermoelastic and Electronic Strain Signal Generation Mechanisms. Physica Status Solidi A, 2000, 179, 387-402.	1.7	17

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109	Optical and thermal properties of liquids measured by means of an open photoacoustic cell. Measurement Science and Technology, 2000, 11, 412-417.	2.6	25
110	Measurement of the thermal properties of liquids using a thermal wave interferometer. Measurement Science and Technology, 2000, 11, 1522-1526.	2.6	25
111	On the use of the photoacoustic technique for monitoring the surface recombination velocity at SiN:H/Si interfaces. Semiconductor Science and Technology, 1999, 14, 543-548.	2.0	6
112	Photoacoustic determination of the recombination velocity at the AlGaAs/GaAs heterostructure interface. Journal of Applied Physics, 1999, 86, 6222-6229.	2.5	29
113	The application of the photoacoustic technique to the measurement of the thermal effusivity of liquids. Journal Physics D: Applied Physics, 1999, 32, 593-597.	2.8	31
114	On the Use of the Photoacoustic Technique for Monitoring the Doping Concentration Dependence of the Surface Recombination Velocity. Physica Status Solidi A, 1998, 169, 275-280.	1.7	15
115	Photoacoustic determination of non-radiative carrier lifetimes. Journal of Applied Physics, 1998, 83, 2604-2609.	2.5	39
116	On the use of the photoacoustic technique for corrosion monitoring of metals: Cu and Zn oxides formed in tropical environments. Corrosion Science, 1997, 39, 1641-1655.	6.6	28
117	Photoacoustic measurements of the thermal properties of Al <sub>y</sub> Ga <sub>1-y</sub> As alloys in the region 0<y<0.5. Applied Physics A: Materials Science and Processing, 1997, 65, 69-72.	2.3	27
118	On the thermal characterization of two-layer systems by means of the photoacoustic effect. Journal Physics D: Applied Physics, 1996, 29, 981-986.	2.8	28
119	Photoacoustic thermal characterization of spark-processed porous silicon. Journal of Applied Physics, 1996, 79, 8951-8954.	2.5	26
120	Photothermal pump-probe lock-in shadowgraph technique using a thermographic camera for thermal diffusivity measurement in thin metallic filaments. , 0, , .		0
121	Application of the Hill Climbing Algorithm to the Geometrical Reconstruction of Vertical Buried Heat Sources Using Vibrothermography. , 0, , .		0