Humberto Cabrera

List of Publications by Year
in descending order

69 papers	756 citations	566801 15 h-index	642321 23 g-index
71 all docs	71 docs citations	71 times ranked	680 citing authors

#	Article	IF	Citations
1	An electrophoresis approach with online thermal lens detection to monitoring DNA surface coatings on gold nanoparticles. Microchemical Journal, 2022, 173, 106961.	2.3	6
2	Optical encryption using phase modulation generated by thermal lens effect. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10	1.0	2
3	Thermal transport properties for unveiling the mechanism of BiSbTe alloys in thermoelectric generation: A glance from synchrotron radiation Bi L3-XAFS. Journal of Materials Research and Technology, 2022, 18, 2261-2272.	2.6	4
4	On the Absorption and Photoluminescence Properties of Pure ZnSe and Co-Doped ZnSe:Eu3+/Yb3+ Crystals. Applied Sciences (Switzerland), 2022, 12, 4248.	1.3	4
5	A modified mode-mismatched thermal lens spectrometry Z-scan model: An exact general approach. Optik, 2022, 265, 169399.	1.4	3
6	Thermal Diffusivity and Conductivity of Polyolefins by Thermal Lens Technique. Polymers, 2022, 14, 2707.	2.0	4
7	Thermal Lensing of Multi-walled Carbon Nanotube Solutions as Heat Transfer Nanofluids. ACS Applied Nano Materials, 2021, 4, 3416-3425.	2.4	16
8	Sulfophosphate Glass Doped with Er3+ and TiO2 Nanoparticles: Thermo-Optical Characterization by Photothermal Spectroscopy. Photonics, 2021, 8, 115.	0.9	5
9	Photodegradation mechanisms of reactive blue 19 dye under UV and simulated solar light irradiation. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 252, 119481.	2.0	9
10	Measurement of the muon transfer rate from muonic hydrogen to oxygen in the range 70-336 K. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 403, 127401.	0.9	4
11	Crystal structure and powder X-ray diffraction data of the super-paramagnetic compound CuFeInTe3. Revista Mexicana De FÃsica, 2021, 67, 305-311.	0.2	0
12	Online electrophoretic nanoanalysis using miniaturized gel electrophoresis and thermal lens microscopy detection. Journal of Chromatography A, 2021, 1657, 462596.	1.8	3
13	Laguerreâ€“Gaussian induced temperature and refractive index profiles in thermal lens effect. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 52.	0.9	7
14	Through-Plane and In-Plane Thermal Diffusivity Determination of Graphene Nanoplatelets by Photothermal Beam Deflection Spectrometry. Materials, 2021, 14, 7273.	1.3	10
15	Thermo-Optical Characterization of Cu- and Zr-Modified TiO2 Photocatalysts by Beam Deflection Spectrometry. Applied Sciences (Switzerland), 2021, 11, 10937.	1.3	9
16	A multi-thermal-lens approach to evaluation of multi-pass probe beam configuration in thermal lens spectrometry. Analytica Chimica Acta, 2020, 1100, 182-190.	2.6	19
17	Cavity Ring-Down Spectroscopy for Molecular Trace Gas Detection Using A Pulsed DFB QCL Emitting at 6.8 Âµm. Photonics, 2020, 7, 74.	0.9	15
18	Laboratory tests for MIR light detection and transport with specialty optical fibres. Journal of Instrumentation, 2020, 15, C04030-C04030.	0.5	0

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19	First measurement of the temperature dependence of muon transfer rate from muonic hydrogen atoms to oxygen. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126667.	0.9	4
20	Frequency-resolved photothermal lens: An alternative approach for thermal diffusivity measurements in weak absorbing thin samples. International Journal of Heat and Mass Transfer, 2020, 158, 120036.	2.5	10
21	DFG-based mid-IR tunable source with 0.5â€‰â€‰mJ energy and a 30â€‰â€‰pm linewidth. Optics Letters, 2020, 45, 5526.	3.7	6
22	24 mJ Cr+4:forsterite four-stage master-oscillator power-amplifier laser system for high resolution mid-infrared spectroscopy. Review of Scientific Instruments, 2019, 90, 093002.	0.6	5
23	Biospeckle laser digital image processing for quantitative and statistical evaluation of the activity of ciprofloxacin onEscherichia coliK-12. Laser Physics, 2019, 29, 075603.	0.6	4
24	Pulse amplification in a Cr4+:forsterite single longitudinal mode (SLM) multi-pass amplifier. Laser Physics, 2019, 29, 065801.	0.6	4
25	Photothermal lens technique: a comparison between conventional and self-mixing schemes. Laser Physics, 2019, 29, 055703.	0.6	4
26	Pump-Probe Photothermal Self-Mixing System for Highly Sensitive Trace Detection. IEEE Sensors Journal, 2019, 19, 2547-2552.	2.4	9
27	Photoconductance of gold nano-island film induced by plasmonic effect. Optik, 2019, 181, 140-145.	1.4	3
28	Application of thermal lens microscopy (TLM) for measurement of Cr(VI) traces in wastewater. Journal of Environmental Management, 2019, 232, 305-309.	3.8	7
29	Speckle pattern analysis of crumpled papers. Applied Optics, 2019, 58, 6549.	0.9	12
30	Preparation and characterization of (CuInTe2)1-x(TaTe)x solid solutions (0<x<1). Journal of Alloys and Compounds, 2018, 747, 176-188.	2.8	2
31	Trace detection and photothermal spectral characterization by a tuneable thermal lens spectrometer with white-light excitation. Talanta, 2018, 183, 158-163.	2.9	26
32	Absorption Spectra of Ethanol and Water Using a Photothermal Lens Spectrophotometer. Applied Spectroscopy, 2018, 72, 1069-1073.	1.2	10
33	Thermal diffusivity measurement in thin metallic filaments using the mirage method with multiple probe beams and a digital camera. Review of Scientific Instruments, 2018, 89, 024904.	0.6	2
34	Thermoelectric properties of nanostructured porous silicon. Materials Research Express, 2018, 5, 015004.	0.8	7
35	Determination of petrophysical properties of sedimentary rocks by optical methods. Sedimentary Geology, 2017, 350, 72-79.	1.0	15
36	Digital imaging information technology for biospeckle activity assessment relative to bacteria and parasites. Lasers in Medical Science, 2017, 32, 1375-1386.	1.0	21

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37	High sensitivity thermal lens microscopy: Cr-VI trace detection in water. Talanta, 2017, 170, 260-265.	2.9	22
38	Electronic, optical and thermoelectric properties of bulk and surface (001) CuInTe 2 : A first principles study. Journal of Alloys and Compounds, 2017, 699, 1003-1011.	2.8	15
39	Electrical, thermal and electrochemical properties of disordered carbon prepared from palygorskite and cane molasses. Journal of Solid State Chemistry, 2017, 246, 404-411.	1.4	6
40	Structural Characterization of Two New Quaternary Chalcogenides: CuCo2InTe4 and CuNi2InTe4. Materials Research, 2016, 19, 1423-1428.	0.6	12
41	Thermal lens microscope sensitivity enhancement using a passive Fabryâ€“Perot-type optical cavity. Laser Physics Letters, 2016, 13, 055702.	0.6	9
42	Thermal diffusivity measurement by lock-in photothermal shadowgraph method. Journal of Applied Physics, 2016, 119, 164902.	1.1	4
43	Imaging functional blood vessels by the laser speckle imaging (LSI) technique using Q-statistics of the generalized differences algorithm. Microvascular Research, 2016, 107, 46-50.	1.1	6
44	Real time monitoring of drug action onT. cruziparasites using a biospeckle laser method. Laser Physics, 2016, 26, 065603.	0.6	10
45	Experimental study of the light absorption in sea water by thermal lens spectroscopy. Journal of Physics: Conference Series, 2016, 672, 012021.	0.3	0
46	Optimized frequency dependent photothermal beam deflection spectroscopy. Laser Physics Letters, 2016, 13, 125701.	0.6	23
47	Online fast Biospeckle monitoring of drug action in Trypanosoma cruzi parasites by motion history image. Lasers in Medical Science, 2016, 31, 1447-1454.	1.0	11
48	Cu 3 TaSe 4 and Cu 3 NbSe 4 : X-ray diffraction, differential thermal analysis, optical absorption and Raman scattering. Journal of Alloys and Compounds, 2016, 658, 749-756.	2.8	21
49	A liquids refractive index spectrometer. Sensors and Actuators B: Chemical, 2016, 229, 249-256.	4.0	10
50	Quantitative Laser Biospeckle Method for the Evaluation of the Activity of Trypanosoma cruzi Using VDRL Plates and Digital Analysis. PLoS Neglected Tropical Diseases, 2016, 10, e0005169.	1.3	18
51	Thermal diffusivity of few-layers graphene measured by an all-optical method. Journal Physics D: Applied Physics, 2015, 48, 465501.	1.3	31
52	Mode-mismatched confocal thermal-lens microscope with collimated probe beam. Review of Scientific Instruments, 2015, 86, 053701.	0.6	14
53	Encapsulation efficiency of CdSe/ZnS quantum dots by liposomes determined by thermal lens microscopy. Biomedical Optics Express, 2015, 6, 3898.	1.5	20
54	Determination of Fe(II) by Optimized Thermal Lens Microscope. International Journal of Thermophysics, 2015, 36, 2434-2440.	1.0	4

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55	Thermoelectric transport properties of CuFeInTe3. Journal of Alloys and Compounds, 2015, 651, 490-496.	2.8	9
56	Experimental Investigation of Thermal Diffusion in Binary Fluid Mixtures. Environmental Science and Engineering, 2014, , 259-270.	0.1	0
57	Measurement of the Soret coefficients in organic/water mixtures by thermal lens spectrometry. Comptes Rendus - Mecanique, 2013, 341, 372-377.	2.1	20
58	Experimental determination of trapping efficiency of optical tweezers. Philosophical Magazine Letters, 2013, 93, 655-663.	0.5	3
59	The Effect of Photodynamic Therapy on Contiguous Untreated Tumor. Dermatologic Surgery, 2012, 38, 1097-1099.	0.4	1
60	Tratamiento de carcinoma basocelular con terapia fotodinÃ¡mica sistÃ©mica. Revista Colombiana De CancerologÃa, 2012, 16, 154-161.	0.0	0
61	Temporal difference method for processing dynamic speckle patterns. Optics Communications, 2010, 283, 4972-4977.	1.0	34
62	Thermal lens measurement of the Soret coefficient in acetone/water mixtures. Journal of Chemical Physics, 2009, 131, 031106.	1.2	17
63	A thermal lens model including the Soret effect. Applied Physics Letters, 2009, 94, 051103.	1.5	39
64	Measurement of Nonlinear Absorption Coefficients of Organic Materials by Mode-Mismatched Z-scan Thermal Lensing Technique. Applied Spectroscopy, 2007, 61, 1128-1133.	1.2	3
65	Optimizing and calibrating a mode-mismatched thermal lens experiment for low absorption measurement. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1408.	0.9	69
66	Absorption coefficient of nearly transparent liquids measured using thermal lens spectrometry. Condensed Matter Physics, 2006, 9, 385.	0.3	55
67	<title>Gaussian beam characterization using the thermal lens method</title>. , 2004, 5622, 972.		0
68	<title>Roughness and gradient parameters of laser beams</title>. , 2001, 4419, 122.		0
69	Photothermal pump-probe lock-in shadowgraph technique using a thermographic camera for thermal diffusivity measurement in thin metallic filaments. , 0, , .		0