

# Angela Limare

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/840223/publications.pdf>

Version: 2024-02-01

60  
papers

882  
citations

516710

16  
h-index

526287

27  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1014  
citing authors

#	ARTICLE	IF	CITATIONS
1	Some laws of a lignin plasticization. <i>Journal of Applied Polymer Science</i> , 2006, 102, 1445-1451.	2.6	106
2	Chlorophyll fluorescence of <i>Brassica oleracea</i> seeds as a non-destructive marker for seed maturity and seed performance. <i>Seed Science Research</i> , 1998, 8, 437-443.	1.7	90
3	Lignin plasticization to improve binderless fiberboard mechanical properties. <i>Polymer Engineering and Science</i> , 2005, 45, 809-816.	3.1	66
4	Photopyroelectric method for determination of thermophysical parameters and detection of phase transitions in fatty acids and triglycerides. Part I: Principles, theory, and instrumental concepts. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 1995, 72, 273-279.	1.9	40
5	An experimental study of the surface thermal signature of hot subaerial isoviscous gravity currents: Implications for thermal monitoring of lava flows and domes. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	40
6	Anatomy of a laminar starting thermal plume at high Prandtl number. <i>Experiments in Fluids</i> , 2011, 50, 285-300.	2.4	37
7	Low heat flux and large variations of lithospheric thickness in the Canadian Shield. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
8	Generation of continental rifts, basins, and swells by lithosphere instabilities. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3080-3100.	3.4	34
9	Inverse photopyroelectric detection of phase transitions. <i>Applied Physics A: Solids and Surfaces</i> , 1993, 57, 235-238.	1.4	28
10	At least three scales of convection in a mantle with strongly temperature-dependent viscosity. <i>Physics of the Earth and Planetary Interiors</i> , 2011, 188, 132-141.	1.9	23
11	Laboratory Studies of Mantle Convection. , 2015, , 73-144.		22
12	Photopyroelectric determination of thermophysical parameters and detection of phase transitions in fatty acids and triglycerides. Part II: Temperature dependence of thermophysical parameters. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 1995, 72, 281-287.	1.9	19
13	Microwave-heating laboratory experiments for planetary mantle convection. <i>Journal of Fluid Mechanics</i> , 2015, 777, 50-67.	3.4	19
14	Experimental Investigation On Self-Channelized Erosive Gravity Currents. <i>Journal of Sedimentary Research</i> , 2014, 84, 487-498.	1.6	18
15	Dynamics of rheological heterogeneities in mantle plumes. <i>Earth and Planetary Science Letters</i> , 2018, 499, 74-82.	4.4	18
16	Starting laminar plumes: Comparison of laboratory and numerical modeling. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	17
17	Diffusive evolution of experimental braided rivers. <i>Physical Review E</i> , 2014, 89, 052809.	2.1	17
18	Classical and photopyroelectric studies of optical and thermophysical properties of starch sheets: dependence on water content and temperature. <i>Applied Physics B: Lasers and Optics</i> , 2000, 71, 69-75.	2.2	16

#	ARTICLE	IF	CITATIONS
19	An analogue study of the influence of solidification on the advance and surface thermal signature of lava flows. <i>Earth and Planetary Science Letters</i> , 2014, 396, 46-55.	4.4	16
20	Early accretion of planetesimals unraveled by the thermal evolution of the parent bodies of magmatic iron meteorites. <i>Earth and Planetary Science Letters</i> , 2020, 548, 116469.	4.4	16
21	Optical method for measuring bed topography and flow depth in an experimental flume. <i>Solid Earth</i> , 2011, 2, 143-154.	2.8	14
22	Fundamentals of laminar free convection in internally heated fluids at values of the Rayleigh–Roberts number up to. <i>Journal of Fluid Mechanics</i> , 2018, 846, 966-998.	3.4	14
23	Recirculation cells in a wide channel. <i>Physics of Fluids</i> , 2014, 26, .	4.0	13
24	Convection in an internally heated stratified heterogeneous reservoir. <i>Journal of Fluid Mechanics</i> , 2019, 870, 67-105.	3.4	13
25	A new photopyroelectric scheme suitable for phase-transition investigations: The front configuration with semitransparent sensor. <i>Applied Physics A: Materials Science and Processing</i> , 1995, 61, 183-186.	2.3	10
26	Microwave-based laboratory experiments for internally-heated mantle convection. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	10
27	Laboratory Studies of Mantle Convection. , 2007, , 89-165.		9
28	Microwave heating device for internal heating convection experiments, applied to Earth's mantle dynamics. <i>Review of Scientific Instruments</i> , 2014, 85, 124702.	1.3	9
29	Photopyroelectric Measurements of Thermal Parameters in Margarines: Influence of Water Content. <i>Instrumentation Science and Technology</i> , 1997, 25, 235-243.	1.8	8
30	A fluid dynamics perspective on the interpretation of the surface thermal signal of lava flows. <i>Geological Society Special Publication</i> , 2016, 426, 243-256.	1.3	8
31	Structure of differentiated planetesimals: A chondritic fridge on top of a magma ocean. <i>Icarus</i> , 2022, 385, 115100.	2.5	8
32	The influence of wind on the estimation of lava effusion rate from thermal remote-sensing. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 264, 223-230.	2.1	7
33	The Earth's mantle in a microwave oven: thermal convection driven by a heterogeneous distribution of heat sources. <i>Experiments in Fluids</i> , 2017, 58, 1.	2.4	7
34	Transient convection experiments in internally-heated systems. <i>MethodsX</i> , 2021, 8, 101224.	1.6	7
35	New photothermal cell equipped with Peltier elements for phase transition studies. <i>Review of Scientific Instruments</i> , 1996, 67, 3990-3993.	1.3	6
36	Low frequency photoacoustics for monitoring the photobaric component in vivo of green leaves. <i>Photosynthesis Research</i> , 1997, 52, 65-67.	2.9	6

#	ARTICLE	IF	CITATIONS
37	The fate of particles in a volumetrically heated convective fluid at high Prandtl number. Journal of Fluid Mechanics, 2021, 929, .	3.4	6
38	The impulse photopyroelectric method for thermal characterization of electrically conducting polymers. Applied Physics A: Materials Science and Processing, 1995, 60, 455-458.	2.3	5
39	Non-contact photopyroelectric method applied to thermal and optical characterization of textiles. Four-flux modeling of a scattering sample. International Journal of Thermal Sciences, 2003, 42, 951-961.	4.9	5
40	Photopyroelectrical measurement of the thermal properties of knitted textile samples. Influence of composition, structural parameters and water content. International Journal of Thermal Sciences, 2003, 42, 963-972.	4.9	5
41	Inverse analysis of water profile in starch by non-contact photopyroelectric method. Applied Physics B: Lasers and Optics, 2000, 71, 77-84.	2.2	4
42	Pyroelectric Spectroscopy of the Hydrogen Uranyl Phosphate. Spectroscopy Letters, 1993, 26, 923-934.	1.0	3
43	Influence of humidity on thermophysical properties of starch sheets. , 1999, , .		3
44	Photothermal device for water dynamics measurement and thermophysical characterization: Application on textile samples. Review of Scientific Instruments, 2002, 73, 1299-1303.	1.3	3
45	Photopyroelectric (PPE) Phase Spectroscopy for Sensitive Optical Absorption Coefficient and Thermal Diffusivity Measurement. Spectroscopy Letters, 1992, 25, 1155-1163.	1.0	2
46	Photopyroelectric spectroscopy of H <sub>2</sub> O-D <sub>2</sub> O mixtures. Infrared Physics, 1992, 33, 575-579.	0.5	2
47	Optical studies on free-standing polypyrrole films by the photopyroelectric method. Applied Physics B: Lasers and Optics, 1996, 62, 499-502.	2.2	2
48	Microwaves heating in a specific experimental configuration. , 2013, , .		2
49	Gas Coupled Laser Photothermal Interferometry for Non-destructive and Non-contact Studies of Biological Specimens. Bioscience, Biotechnology and Biochemistry, 1995, 59, 1044-1047.	1.3	1
50	PPE study of water migration in starch sheets under moist atmosphere. , 1999, , .		1
51	Dielectric properties measurement method in the microwave frequencies range for non-polar/polar liquid mixtures characterization. AIP Conference Proceedings, 2015, , .	0.4	1
52	Microwave-based, internally-heated convection: New perspectives for the heterogeneous case. AIP Conference Proceedings, 2015, , .	0.4	1
53	Combined standard(SPPE) and inverse(IPPE) photopyroelectric configurations for measurement of dynamic thermal parameters of saturated and unsaturated fatty acids. European Physical Journal Special Topics, 1994, 04, C7-483-C7-486.	0.2	1
54	RAYLEIGH-BÄRD-NARD-MARANGONI INSTABILITIES DURING EVAPORATION OF AQUEOUS ALCOHOL SOLUTIONS, DETECTED BY PYROELECTRIC SENSORS. Instrumentation Science and Technology, 1998, 26, 133-144.	1.8	0

#	ARTICLE	IF	CITATIONS
55	Photothermal method using a pyroelectric sensor for thermophysical characterization of agricultural and biological samples. , 1998, , .		0
56	The colligative properties of fruit juices by photopyroelectric calorimetry. , 1999, , .		0
57	Photothermal and optical investigation of haze formation in fruit juices. , 1999, , .		0
58	Monitoring the photobaric component of green leaves by low frequency photoacoustics. , 1999, , .		0
59	Photopyroelectric measurement of thermal diffusivity of meat. , 1999, , .		0
60	Convection in an Internally-Heated Two-Layer System. Japanese Journal of Multiphase Flow, 2020, 34, n/a.	0.3	0