

# Miguel Angel Ramos

## List of Publications by Year in descending order

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86  
papers

2,709  
citations

218592

26  
h-index

182361

51  
g-index

87  
all docs

87  
docs citations

87  
times ranked

1870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of soft modes and sound waves in glasses. <i>Physical Review B</i> , 1992, 46, 2798-2808.	1.1	393
2	Low-temperature specific heat and thermal conductivity of glasses. <i>Physical Review Letters</i> , 1993, 70, 182-185.	2.9	181
3	Thermodynamics, Structure, and Dynamics in Room Temperature Ionic Liquids: The Case of 1-Butyl-3-methyl Imidazolium Hexafluorophosphate ([bmim][PF6]). <i>Journal of Physical Chemistry B</i> , 2006, 110, 21357-21364.	1.2	180
4	Quantitative Assessment of the Effects of Orientational and Positional Disorder on Glassy Dynamics. <i>Physical Review Letters</i> , 1997, 78, 82-85.	2.9	162
5	Suppression of tunneling two-level systems in ultrastable glasses of indomethacin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11275-11280.	3.3	114
6	Concentration and temperature dependence of the refractive index of ethanol-water mixtures: Influence of intermolecular interactions. <i>European Physical Journal E</i> , 2009, 30, 19-26.	0.7	99
7	Low-temperature specific heat and glassy dynamics of a polymorphic molecular solid. <i>Physical Review B</i> , 1998, 58, 745-755.	1.1	98
8	Low-temperature thermal conductivity of glasses within the soft-potential model. <i>Physical Review B</i> , 1997, 55, 5749-5754.	1.1	89
9	Two-Level Systems and Boson Peak Remain Stable in 110-Million-Year-Old Amber Glass. <i>Physical Review Letters</i> , 2014, 112, 165901.	2.9	75
10	Low-temperature specific heat of amorphous, orientational glass, and crystal phases of ethanol. <i>Physical Review B</i> , 2002, 66, .	1.1	63
11	Magnetic properties of graphite irradiated with MeV ions. <i>Physical Review B</i> , 2010, 81, .	1.1	63
12	Low-temperature specific heat of structural and orientational glasses of simple alcohols. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S1007-S1018.	0.7	55
13	Tunneling measurements of the energy gap in $\text{Bi}_4\text{Ca}_3\text{Sr}_3\text{Cu}_4\text{O}_{16+\delta}$ . <i>Physical Review B</i> , 1988, 38, 9295-9298.	1.1	44
14	Probing cooperative liquid dynamics with the mean square displacement. <i>Physical Review E</i> , 2014, 90, 042312.	0.8	44
15	On the phase diagram of polymorphic ethanol: Thermodynamic and structural studies. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4769-4775.	1.5	43
16	The Density of Tunneling and Vibrational States of Glasses within the Soft-Potential Model. <i>Physica Status Solidi A</i> , 1993, 135, 477-492.	1.7	41
17	Low-temperature specific heat of different $\text{B}_2\text{O}_3$ glasses. <i>Physical Review B</i> , 1997, 56, 32-35.	1.1	41
18	Thermal properties and Brillouin-scattering study of glass, crystal, and "glacial" states in n-butanol. <i>Journal of Chemical Physics</i> , 2009, 131, 174508.	1.2	38

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19	Chemical Isomerism as a Key to Explore Free-Energy Landscapes in Disordered Matter. Physical Review Letters, 2002, 88, 115506.	2.9	36
20	Structural and thermodynamic studies of n-butanol. Journal of Physics Condensed Matter, 2010, 22, 195102.	0.7	34
21	Low-temperature specific heat and thermal conductivity of glycerol. Physical Review B, 2001, 65, .	1.1	33
22	Are the calorimetric and elastic Debye temperatures of glasses really different?. Philosophical Magazine, 2004, 84, 1313-1321.	0.7	33
23	Emergence of glassy features in halomethane crystals. Physical Review B, 2019, 99, .	1.1	29
24	Thermodynamic and structural properties of the two isomers of solid propanol. Journal of Non-Crystalline Solids, 2001, 287, 226-230.	1.5	28
25	Superconductivity and magnetism on flux-grown single crystals of NiBi $\langle$ mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 88, .	1.1	28
26	Glassy Anomalies in the Low-Temperature Thermal Properties of a Minimally Disordered Crystalline Solid. Physical Review Letters, 2017, 119, 215506.	2.9	28
27	HighT c superconductive materials: Bulk or twinned domain/grain boundary percolative network superconductors?. European Physical Journal B, 1988, 70, 9-13.	0.6	26
28	Ultrastable glasses: new perspectives for an old problem. Rivista Del Nuovo Cimento, 2022, 45, 325-406.	2.0	26
29	The Boson peak in structural and orientational glasses of simple alcohols: specific heat at low temperatures. Journal of Non-Crystalline Solids, 2002, 307-310, 80-86.	1.5	25
30	Thermodynamic study of alkyl-cyclohexanes in liquid, glassy, and crystalline states. Journal of Chemical Physics, 2006, 125, 054514.	1.2	25
31	Density of states and light-vibration coupling coefficient in B <sub>2</sub> O <sub>3</sub> glasses with different thermal history. Physical Review B, 2003, 67, .	1.1	24
32	Low-temperature calorimetry on molecular glasses and crystals. Thermochimica Acta, 2007, 461, 50-56.	1.2	24
33	Low-temperature thermal and elastoacoustic properties of butanol glasses: Study of position isomerism effects around the boson peak. Physical Review B, 2012, 85, .	1.1	23
34	Inelastic light scattering in B <sub>2</sub> O <sub>3</sub> glasses with different thermal histories. Journal of Chemical Physics, 2000, 113, 5891-5900.	1.2	22
35	Thermodynamic and Kinetic Fragility of Freon 113: The Most Fragile Plastic Crystal. Physical Review Letters, 2017, 118, 105701.	2.9	22
36	Density of vibrational states and light-scattering coupling coefficient in the structural glass and glassy crystal of ethanol. Journal of Physics Condensed Matter, 2004, 16, 223-230.	0.7	21

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37	Low-temperature properties of glassy and crystalline states of n-butanol. Journal of Non-Crystalline Solids, 2011, 357, 524-529.	1.5	21
38	Are the high T <sub>c</sub> superconducting materials bulk superconductors or grain boundary percolating network superconductors? (abstract). Journal of Applied Physics, 1988, 63, 4213-4213.	1.1	20
39	Thermal properties of halogen-ethane glassy crystals: Effects of orientational disorder and the role of internal molecular degrees of freedom. Journal of Chemical Physics, 2015, 143, 084510.	1.2	20
40	Strain dependence of the acoustic properties of amorphous metals below 1 K: Evidence for the interaction between tunneling states. Physical Review B, 2002, 65, .	1.1	19
41	Tunneling measurements of the energy gap in the high-T <sub>c</sub> superconductor Tl <sub>2</sub> Ba <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10</sub> + $\delta$ . Physical Review B, 1989, 40, 11403-11405.	1.1	17
42	Low-Temperature Specific Heat of Graphite and CeSb <sub>2</sub> : Validation of a Quasi-adiabatic Continuous Method. Journal of Low Temperature Physics, 2013, 173, 4-20.	0.6	17
43	Low-temperature thermal properties of a hyperaged geological glass. Journal of Physics Condensed Matter, 2013, 25, 295402.	0.7	17
44	Acoustic properties of amorphous metals at very low temperatures: Applicability of the tunneling model. Physical Review B, 2000, 61, 1059-1067.	1.1	16
45	Charge density wave in layered $\text{La}_{1-x}\text{Sr}_x\text{CuO}_2$ . Physical Review B, 2015, 92, .		
46	Lattice damage in 9-MeV-carbon irradiated diamond and its recovery after annealing. Carbon, 2017, 123, 334-343.	5.4	15
47	Low-temperature properties of monoalcohol glasses and crystals. Low Temperature Physics, 2013, 39, 468-472.	0.2	13
48	Comment on "Low-frequency light scattering and structural defects in samarium phosphate glasses". Physical Review B, 1994, 49, 702-703.	1.1	12
49	Comment on "Revealing common artifacts due to ferromagnetic inclusions in highly oriented pyrolytic graphite" by Sepioni M. et al .. Europhysics Letters, 2012, 98, 57006.	0.7	12
50	Tracking the Connection between Disorder and Energy Landscape in Glasses Using Geologically Hyperaged Amber. Journal of Physical Chemistry Letters, 2019, 10, 427-432.	2.1	12
51	Are universal "anomalous" properties of glasses at low temperatures truly universal?. Low Temperature Physics, 2020, 46, 104-110.	0.2	12
52	Piezoelectric Behaviour of Several Ceramic Materials at Low Temperatures. Japanese Journal of Applied Physics, 1987, 26, 1711.	0.8	10
53	Calorimetric and acoustic experiments on orientationally disordered and fully ordered crystalline phases of ethanol. Journal of Physics Condensed Matter, 2007, 19, 205135.	0.7	10
54	Highly-focused boron implantation in diamond and imaging using the nuclear reaction $^{11}\text{B}(p, \alpha)^8\text{Be}$ . Nuclear Instruments & Methods in Physics Research B, 2015, 348, 174-177.	0.6	10

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55	Tunneling measurements of the energy gap in Ti and Bi based oxide superconductors. Journal of Applied Physics, 1990, 67, 5026-5028.	1.1	9
56	Thermal and acoustic experiments on polymorphic ethanol. Philosophical Magazine, 2008, 88, 4197-4203.	0.7	9
57	Magnetic properties of point defects in proton irradiated diamond. Journal of Magnetism and Magnetic Materials, 2016, 413, 76-80.	1.0	9
58	Do two-level systems and boson peak persist or vanish in hyperaged geological glasses of amber?. Philosophical Magazine, 2016, 96, 774-787.	0.7	8
59	Study of the effects of focused high-energy boron ion implantation in diamond. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 207-210.	0.6	8
60	Low-temperature scanning tunnelling microscopy and spectroscopy on Pb and Au. Journal of Microscopy, 1988, 152, 137-143.	0.8	7
61	Low-temperature thermal properties of molecular glasses and crystals. Phase Transitions, 1997, 64, 87-102.	0.6	7
62	Calorimetric and thermodynamic study of glass-forming monohydroxy alcohols. Philosophical Magazine, 2011, 91, 1847-1856.	0.7	7
63	Calorimetric studies at low temperatures of glass-forming 1-butanol and 2-butanol. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2245-2248.	0.8	7
64	Micro-Raman spectroscopy of near-surface damage in diamond irradiated with 9-MeV boron ions. Diamond and Related Materials, 2017, 72, 94-98.	1.8	7
65	Low-temperature thermal properties of molecular glasses. European Physical Journal D, 1996, 46, 2235-2236.	0.4	6
66	Calorimetric Measurements at Low Temperatures in Toluene Glass and Crystal. Journal of Low Temperature Physics, 2017, 187, 182-191.	0.6	6
67	Specific heat of ethanol at low temperatures. Journal of Non-Crystalline Solids, 2008, 354, 263-268.	1.5	5
68	Brillouin spectroscopy experiments on polymorphic ethanol. Philosophical Magazine, 2007, 87, 657-663.	0.7	4
69	Structural and enthalpy relaxation processes in pure ethanol. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2249-2253.	0.8	4
70	Do tunneling states and boson peak persist or disappear in extremely stabilized glasses?. Low Temperature Physics, 2015, 41, 412-418.	0.2	4
71	Comment on "High Frequency Dynamics of Glass Forming Liquids at the Glass Transition". Physical Review Letters, 1998, 81, 3801-3801.	2.9	3
72	Crystalline phase transitions and acoustic phonons behaviour of polymorphic ethanol. European Physical Journal B, 2009, 71, 41-45.	0.6	3

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73	Investigation of the magnetic properties of proton irradiated type Ib HPHT diamond. Diamond and Related Materials, 2016, 64, 197-201.	1.8	3
74	Refractive Index at Low Temperature of Tetrachloromethane and Tetrafluoroethane Cryovacuum Condensates. ACS Omega, 2020, 5, 11671-11676.	1.6	3
75	Low-temperature thermal expansion of crystalline ortho-terphenyl. Molecular Physics, 1995, 85, 1037-1042.	0.8	2
76	Experimental study of the thermal expansion of $(Ag)_{0.67}(Ag_2MoO_4)_{0.33}$ ionic glass from 5 K to 300 K. Philosophical Magazine, 2008, 88, 3973-3978.	0.7	2
77	Thermal expansion of silver iodide-silver molybdate glasses at low temperatures. Journal of Chemical Physics, 2009, 130, 204508.	1.2	2
78	Microscopic dynamics in glasses in relation to that shown by other complex systems. Lecture Notes in Physics, 1997, , 44-61.	0.3	1
79	Temperature and intensity dependence of the acoustic properties of normal- and superconducting amorphous metals at low temperatures. Physica B: Condensed Matter, 2002, 316-317, 509-512.	1.3	1
80	Brillouin scattering study of methanol-water solutions under pressure. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3178-3181.	0.8	1
81	Looking for Ferromagnetic Signals in Proton-Irradiated Graphite. Mathematics in Industry, 2008, , 477-482.	0.1	1
82	Residual entropy in the zero-temperature limit of toluene glass. Low Temperature Physics, 2019, 45, 331-336.	0.2	1
83	Focus point on small and medium particle accelerator facilities in Europe. European Physical Journal Plus, 2021, 136, 1.	1.2	1
84	Thermal relaxation calorimetry on ethanol at low temperatures. Journal of Non-Crystalline Solids, 2007, 353, 984-986.	1.5	0
85	Effects of thermal history on the acoustic attenuation of dry and wet B <sub>2</sub> O <sub>3</sub> glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 521-522, 263-267.	2.6	0
86	Calor específico a bajas temperaturas de alcoholes sólidos vítreos y cristalinos. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2004, 43, 42-46.	0.9	0