

Paul-Francois Paradis

List of Publications by Year in descending order

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72
papers

1,879
citations

257450

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276875

41
g-index

72
all docs

72
docs citations

72
times ranked

908
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrostatic Levitation on the ISS. Minerals, Metals and Materials Series, 2022, , 65-92.	0.4	3
2	Densities of Liquid Tm ₂ O ₃ , Yb ₂ O ₃ , and Lu ₂ O ₃ Measured by an Electrostatic Levitation Furnace Onboard the International Space Station. Metals, 2022, 12, 1126.	2.3	4
3	Spectral emissivity, hemispherical total emissivity, and constant pressure heat capacity of liquid vanadium measured by an electrostatic levitator. Journal of Chemical Thermodynamics, 2021, 163, 106598.	2.0	5
4	Densities of liquid Re, Os, and Ir, and their temperature dependence measured by an electrostatic levitator. International Journal of Refractory Metals and Hard Materials, 2020, 92, 105305.	3.8	9
5	Phase relation between supercooled liquid and amorphous silicon. Applied Physics Letters, 2020, 116, 093705.	3.3	2
6	Spectral emissivity and constant pressure heat capacity of liquid titanium measured by an electrostatic levitator. Journal of Chemical Thermodynamics, 2019, 131, 557-562.	2.0	15
7	Challenges of Handling, Processing, and Studying Liquid and Supercooled Materials at Temperatures above 3000 K with Electrostatic Levitation. Crystals, 2017, 7, 309.	2.2	10
8	Measurement of spectral emissivity and constant pressure heat capacity of liquid platinum with an electrostatic levitator. Journal of Chemical Thermodynamics, 2017, 112, 7-12.	2.0	8
9	Spectral emissivity and constant pressure heat capacity of molten nickel and rhodium measured by spectrometers combined with an electrostatic levitator. Journal of Chemical Thermodynamics, 2016, 103, 107-114.	2.0	10
10	Towards Microgravity Experiments Using the Electrostatic Levitation Furnace (ELF) in the International Space Station (ISS). Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Th_15-Th_18.	0.2	2
11	Density measurement of glass and liquid CaAl ₂ O ₄ using a pressurized electrostatic levitator. Measurement Science and Technology, 2014, 25, 085301.	2.6	6
12	Surface tension measurement using sample rotation combined with electrostatic levitation. Japanese Journal of Applied Physics, 2014, 53, 126601.	1.5	1
13	Nanosized Nucleus-Supercooled Liquid Interfacial Free Energy and Thermophysical Properties of Early and Late Transition Liquid Metals. Crystal Growth and Design, 2014, 14, 1103-1109.	3.0	27
14	Materials properties measurements and particle beam interactions studies using electrostatic levitation. Materials Science and Engineering Reports, 2014, 76, 1-53.	31.8	101
15	Viscosity of molten Mo, Ta, Os, Re, and W measured by electrostatic levitation. Journal of Chemical Thermodynamics, 2013, 65, 1-6.	2.0	42
16	Spectral emissivity measurements of liquid refractory metals by spectrometers combined with an electrostatic levitator. Measurement Science and Technology, 2012, 23, 125602.	2.6	21
17	Viscosity measurements of molten refractory metals using an electrostatic levitator. Measurement Science and Technology, 2012, 23, 025305.	2.6	36
18	Hybrid Processing Combining Electrostatic Levitation and Laser Heating: Application to Terrestrial Analogues of Asteroid Materials. Advances in Optical Technologies, 2011, 2011, 1-8.	0.8	7

#	ARTICLE	IF	CITATIONS
19	Thermophysical Property Measurements of High Temperature Melts Using an Electrostatic Levitation Method. Japanese Journal of Applied Physics, 2011, 50, 11RD03.	1.5	11
20	Thermophysical Property Measurements of High Temperature Melts Using an Electrostatic Levitation Method. Japanese Journal of Applied Physics, 2011, 50, 11RD03.	1.5	6
21	Surface tension and viscosity of molten vanadium measured with an electrostatic levitation furnace. Journal of Chemical Thermodynamics, 2010, 42, 856-859.	2.0	25
22	Viscosity of liquid boron. Physical Review B, 2010, 81, .	3.2	8
23	Effects of the positioning force of electrostatic levitators on viscosity measurements. Review of Scientific Instruments, 2009, 80, 013906.	1.3	20
24	Thermophysical Properties of Molten Yttrium Measured by Non-contact Techniques. Microgravity Science and Technology, 2009, 21, 113-118.	1.4	7
25	Noncontact Thermophysical Property Measurements of Refractory Metals Using an Electrostatic Levitator. Advances in Materials Research, 2009, , 173-195.	0.2	4
26	Experiments in materials science on the ground and in reduced gravity using electrostatic levitators. Advances in Space Research, 2008, 41, 2118-2125.	2.6	17
27	Compact electrostatic levitator for diffraction measurements with a two axis diffractometer and a laboratory x-ray source. Review of Scientific Instruments, 2007, 78, 026102.	1.3	14
28	Physical Properties of Liquid Terbium Measured by Levitation Techniques. Journal of Rare Earths, 2007, 25, 665-669.	4.8	10
29	Noncontact surface tension and viscosity measurements of molten oxides with a pressurized hybrid electrostatic-aerodynamic levitator. Review of Scientific Instruments, 2006, 77, 053901.	1.3	16
30	Solidification and thermophysical property studies of barium titanate using electrostatic levitation furnace. Journal of Crystal Growth, 2006, 292, 480-484.	1.5	5
31	Thermophysical properties of molten tungsten measured with an electrostatic levitator. Heat Transfer - Asian Research, 2006, 35, 152-164.	2.8	24
32	Non-contact Thermophysical Property Measurements of Liquid and Supercooled Platinum. Japanese Journal of Applied Physics, 2006, 45, 1719-1724.	1.5	24
33	Density Measurements of Mould Flux Slags by Electrostatic Levitation Method. ISIJ International, 2006, 46, 606-610.	1.4	9
34	Synthesis of barium titanate by electrostatic levitation. Journal of Crystal Growth, 2005, 273, 515-519.	1.5	8
35	Thermophysical properties of molten refractory metals measured by an electrostatic levitator. Journal of Electronic Materials, 2005, 34, 1526-1532.	2.2	47
36	Surface Tension and Viscosity Measurements of Liquid and Undercooled Alumina by Containerless Techniques. Japanese Journal of Applied Physics, 2005, 44, 5082-5085.	1.5	64

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37	Non-contact property measurements of liquid and supercooled ceramics with a hybrid electrostatic-aerodynamic levitation furnace. Measurement Science and Technology, 2005, 16, 452-456.	2.6	16
38	Noncontact density measurements of liquid, undercooled, and high temperature solid boron. Applied Physics Letters, 2005, 86, 151901.	3.3	15
39	Physical properties of liquid and undercooled tungsten by levitation techniques. Applied Physics Letters, 2005, 86, 041901.	3.3	38
40	Non-contact thermophysical property measurements of refractory metals using an electrostatic levitator. Measurement Science and Technology, 2005, 16, 443-451.	2.6	81
41	Viscosity of liquid undercooled tungsten. Journal of Applied Physics, 2005, 97, 106101.	2.5	31
42	Study of Non-linear Behavior of Liquid Drop Oscillation. , 2005, , .		0
43	Surface tension and viscosity of liquid and undercooled tantalum measured by a containerless method. Journal of Applied Physics, 2005, 97, 053506.	2.5	34
44	Thermophysical Properties of Molten Tungsten Measured with an Electrostatic Levitator. Netsu Bussei, 2005, 19, 61-66.	0.1	6
45	Microstructure and Dielectric Constant of BaTiO ₃ Synthesized by Roller Quenching. Japanese Journal of Applied Physics, 2004, 43, 8135-8138.	1.5	11
46	Non-Contact Thermophysical Property Measurements of Liquid and Undercooled Alumina. Japanese Journal of Applied Physics, 2004, 43, 1496-1500.	1.5	58
47	Noncontact surface tension and viscosity measurements of rhenium in the liquid and undercooled states. Applied Physics Letters, 2004, 85, 5866-5868.	3.3	28
48	Maxwell-Wagner effect in hexagonal BaTiO ₃ single crystals grown by containerless processing. Applied Physics Letters, 2004, 85, 2899-2901.	3.3	44
49	Dielectric Constant of Barium Titanate Synthesized by Containerless Processing. Materials Research Society Symposia Proceedings, 2004, 848, 1.	0.1	0
50	Property Measurements and Solidification Studies by Electrostatic Levitation. Annals of the New York Academy of Sciences, 2004, 1027, 464-473.	3.8	2
51	Giant Dielectric Constant of Hexagonal BaTiO ₃ Crystal Grown by Containerless Processing.. ChemInform, 2004, 35, no.	0.0	0
52	Observation of rapid solidification of deeply undercooled Si melts using electrostatic levitation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 375-377, 460-463.	5.6	10
53	Huge Dielectric Constant of Transparent Hexagonal BaTiO ₃ Obtained by Containerless Processing. Ferroelectrics, 2004, 301, 199-201.	0.6	3
54	Giant Dielectric Constant of Hexagonal BaTiO ₃ Crystal Grown by Containerless Processing. Chemistry of Materials, 2004, 16, 3973-3975.	6.7	57

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55	Thermophysical Property Measurements of Molten Nickel Using an Electrostatic Levitation Furnace. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 781-786.	0.4	18
56	Contactless Density Measurement of Liquid Nd ²⁺ Doped 50%CaO ²⁺ 50%Al ₂ O ₃ . Journal of the American Ceramic Society, 2003, 86, 2234-2236.	3.8	16
57	Noncontact density measurements of tantalum and rhenium in the liquid and undercooled states. Applied Physics Letters, 2003, 83, 4047-4049.	3.3	35
58	Thermophysical properties of liquid refractory metals: Comparison between hard sphere model calculation and electrostatic levitation measurements. Journal of Chemical Physics, 2003, 118, 7912-7920.	3.0	59
59	An aerodynamic levitation system for drop tube and quenching experiments. Review of Scientific Instruments, 2003, 74, 1057-1063.	1.3	11
60	Development of an electrostatic levitator for neutron diffraction structure analysis. Review of Scientific Instruments, 2003, 74, 1147-1149.	1.3	20
61	Novel Synthesis of Calcium Oxide-Aluminum Oxide Glasses. Japanese Journal of Applied Physics, 2002, 41, 3029-3030.	1.5	18
62	Containerless Solidification of Undercooled Nd ₂ Fe ₁₄ B by Electrostatic Levitation Furnace. Japanese Journal of Applied Physics, 2002, 41, 2908-2911.	1.5	6
63	Electrostatic levitation furnace for structural studies of high temperature liquid metals by neutron scattering experiments. Journal of Non-Crystalline Solids, 2002, 312-314, 309-313.	3.1	12
64	Specifications of a ground-based electrostatic levitation furnace and applications to the study of liquid properties. Journal of Non-Crystalline Solids, 2002, 312-314, 314-318.	3.1	4
65	Thermophysical properties of vanadium at high temperature measured with an electrostatic levitation furnace. Journal of Chemical Thermodynamics, 2002, 34, 1929-1942.	2.0	30
66	Hybrid electrostatic-aerodynamic levitation furnace for the high-temperature processing of oxide materials on the ground. Review of Scientific Instruments, 2001, 72, 2811-2815.	1.3	61
67	New sample levitation initiation and imaging techniques for the processing of refractory metals with an electrostatic levitator furnace. Review of Scientific Instruments, 2001, 72, 2490-2495.	1.3	121
68	Non-contact measurements of thermophysical properties of titanium at high temperature. Journal of Chemical Thermodynamics, 2000, 32, 123-133.	2.0	74
69	Noncontact technique for measuring surface tension and viscosity of molten materials using high temperature electrostatic levitation. Review of Scientific Instruments, 1999, 70, 2796-2801.	1.3	194
70	Laser-induced rotation of a levitated sample in vacuum. Review of Scientific Instruments, 1999, 70, 4652-4655.	1.3	43
71	Thermophysical properties of zirconium at high temperature. Journal of Materials Research, 1999, 14, 3713-3719.	2.6	90
72	Aerodynamic Trapping and Laser Heating for Containerless Glass Processing in Microgravity. Journal of Thermophysics and Heat Transfer, 1997, 11, 112-118.	1.6	5