

Franck Pigeonneau

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Engineered Nanoparticle-Doped Optical Fibers for Sensor Applications. <i>Frontiers in Sensors</i> , 2022, 2, .	3.3	6
2	A feedback mechanism between crystals and bubbles in a RuO ₂ -bearing melt. <i>Journal of Non-Crystalline Solids</i> , 2022, 582, 121456.	3.1	5
3	Nanoparticles in optical fiber, issue and opportunity of light scattering [Invited]. <i>Optical Materials Express</i> , 2022, 12, 2635.	3.0	27
4	Thermal analysis of the fused filament fabrication printing process: Experimental and numerical investigations. <i>International Journal of Material Forming</i> , 2021, 14, 763-776.	2.0	9
5	Inferring bubble volume fraction in a glass melt through in situ impedance spectroscopy measurements. <i>International Journal of Applied Glass Science</i> , 2021, 12, 358-366.	2.0	3
6	Mass transfer around a rising bubble in a glass-forming liquid involving oxidation-reduction reaction: Numerical computation of the Sherwood number. <i>Chemical Engineering Science</i> , 2021, 232, 116382.	3.8	7
7	X-ray imaging of a high-temperature furnace applied to glass melting. <i>Journal of the American Ceramic Society</i> , 2020, 103, 979-992.	3.8	5
8	Heating and flow computations of an amorphous polymer in the liquefier of a material extrusion 3D printer. <i>Additive Manufacturing</i> , 2020, 32, 101001.	3.0	22
9	Experimental study of bubble formation in a glass-forming liquid doped with cerium oxide. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2453-2462.	3.8	16
10	Experimental and numerical investigations of an oxygen single-bubble shrinkage in a borosilicate glass-forming liquid doped with cerium oxide. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6736-6745.	3.8	7
11	Flow analysis of the polymer spreading during extrusion additive manufacturing. <i>Additive Manufacturing</i> , 2019, 29, 100794.	3.0	24
12	Chondrule radiative cooling in a non-uniform density environment. <i>Icarus</i> , 2019, 329, 1-7.	2.5	1
13	Discontinuous Galerkin finite element method applied to the coupled unsteady Stokes/Cahn-Hilliard equations. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 90, 267-295.	1.6	7
14	Nano-Structured Optical Fibers Made of Glass-Ceramics, and Phase Separated and Metallic Particle-Containing Glasses. <i>Fibers</i> , 2019, 7, 105.	4.0	30
15	Thermoconvective instabilities of a non-uniform Joule-heated liquid enclosed in a rectangular cavity. <i>Journal of Fluid Mechanics</i> , 2018, 843, 601-636.	3.4	0
16	Spatial distribution of nucleated bubbles in molten glasses undergoing coalescence and growth. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1892-1905.	3.8	7
17	Low-Reynolds-number rising of a bubble near a free surface at vanishing Bond number. <i>Physics of Fluids</i> , 2016, 28, 063102.	4.0	4
18	A Hybrid High-Order Method for the Cahn-Hilliard problem in Mixed Form. <i>SIAM Journal on Numerical Analysis</i> , 2016, 54, 1873-1898.	2.3	26

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19	Drainage in a rising foam. <i>Soft Matter</i> , 2016, 12, 905-913.	2.7	13
20	Rate of chaotic mixing in localized flows. <i>Physical Review Fluids</i> , 2016, 1, .	2.5	8
21	Slow viscous gravity-driven interaction between a bubble and a free surface with unequal surface tensions. <i>Physics of Fluids</i> , 2015, 27, 043102.	4.0	3
22	From steady to unsteady horizontal gradient-driven convection at high Prandtl number. <i>International Journal of Heat and Mass Transfer</i> , 2014, 71, 469-474.	4.8	4
23	Mass transfer enhancement by a reversible chemical reaction across the interface of a bubble rising under <scp>Stokes</scp> flow. <i>AIChE Journal</i> , 2014, 60, 3376-3388.	3.6	8
24	Film drainage of viscous liquid on top of bare bubble: Influence of the Bond number. <i>Physics of Fluids</i> , 2013, 25, .	4.0	42
25	Intermittent flow in yield-stress fluids slows down chaotic mixing. <i>Physical Review E</i> , 2013, 88, 023024.	2.1	7
26	The impact of iron content in oxidation front in soda-lime silicate glasses: An experimental and comparative study. <i>Journal of Non-Crystalline Solids</i> , 2013, 380, 86-94.	3.1	8
27	Stability of vertical films of molten glass due to evaporation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 408, 8-16.	4.7	11
28	Practical laws for natural convection of viscous fluids heated from above in a shallow cavity. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 436-442.	4.8	13
29	Low-Reynolds-number gravity-driven migration and deformation of bubbles near a free surface. <i>Physics of Fluids</i> , 2011, 23, .	4.0	25
30	Mechanism of mass transfer between a bubble initially composed of oxygen and molten glass. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1448-1455.	4.8	9
31	Shrinkage of an oxygen bubble rising in a molten glass. <i>Chemical Engineering Science</i> , 2010, 65, 3158-3168.	3.8	15
32	A systemic approach for glass manufacturing process modeling. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 1310-1320.	3.6	5
33	Mass transfer of a rising bubble in molten glass with instantaneous oxidation/reduction reaction. <i>Chemical Engineering Science</i> , 2009, 64, 3120-3129.	3.8	18
34	Kinematic regimes of convection at high Prandtl number in a shallow cavity. <i>Comptes Rendus - Mecanique</i> , 2004, 332, 783-788.	2.1	4
35	Kinematic regimes of convection at high Prandtl number in a shallow cavity. <i>Comptes Rendus - Mecanique</i> , 2004, 332, 783-788.	2.1	2
36	TEST-CASE NO 16: IMPACT OF A DROP ON A THIN FILM OF THE SAME LIQUID (PE, PA). <i>Multiphase Science and Technology</i> , 2004, 16, 105-109.	0.5	0

#	ARTICLE	IF	CITATIONS
37	TEST-CASE NO 23: RELATIVE TRAJECTORIES AND COLLISION OF TWO DROPS IN A SIMPLE SHEAR FLOW (PA). Multiphase Science and Technology, 2004, 16, 135-142.	0.5	0
38	Collision of drops with inertia effects in strongly sheared linear flow fields. Journal of Fluid Mechanics, 2002, 455, 359-386.	3.4	6
39	Collision and size evolution of drops in homogeneous isotropic turbulence. Journal of Aerosol Science, 1998, 29, S1279-S1280.	3.8	3
40	Freezing of a Subcooled Liquid Droplet. Journal of Colloid and Interface Science, 1995, 169, 90-102.	9.4	89