Thodoris D Karapantsios

List of Publications by Year in descending order

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	172457	182427
3,288	29	51
citations	h-index	g-index
133	133	2948
docs citations	times ranked	citing authors
	3,288 citations 133 docs citations	3,288 29 citations h-index 133 133 docs citations 133 times ranked

#	Article	IF	CITATIONS
1	SARS-CoV-2 adsorption on suspended solids along a sewerage network: mathematical model formulation, sensitivity analysis, and parametric study. Environmental Science and Pollution Research, 2022, 29, 11304-11319.	5.3	6
2	Wetting properties of dehydrated biofilms under different growth conditions. Colloids and Surfaces B: Biointerfaces, 2022, 210, 112245.	5.0	4
3	The multiscale boiling investigation on-board the International Space Station: An overview. Applied Thermal Engineering, 2022, 205, 117932.	6.0	28
4	Towards an accurate size distribution of emulsion droplets by merging distributions estimated from different measuring methods. Colloids and Interface Science Communications, 2022, 46, 100569.	4.1	1
5	Detecting SARS-CoV-2 lineages and mutational load in municipal wastewater and a use-case in the metropolitan area of Thessaloniki, Greece. Scientific Reports, 2022, 12, 2659.	3.3	17
6	The COVID-19 pandemic as inspiration to reconsider epidemic models: A novel approach to spatially homogeneous epidemic spread modeling. Mathematical Biosciences and Engineering, 2022, 19, 9853-9886.	1.9	0
7	Wetting and Imbibition Characteristics of <i>Pseudomonas fluorescens</i> Biofilms Grown on Stainless Steel. Langmuir, 2022, 38, 9810-9821.	3.5	6
8	A novel device for <i>in situ</i> study of gas adsorption under rotation. Review of Scientific Instruments, 2021, 92, 045106.	1.3	6
9	A Hybrid Device for Enhancing Flotation of Fine Particles by Combining Micro-Bubbles with Conventional Bubbles. Minerals (Basel, Switzerland), 2021, 11, 561.	2.0	11
10	Wetting of Dehydrated Hydrophilic <i>Pseudomonas fluorescens</i> Biofilms under the Action of External Body Forces. Langmuir, 2021, 37, 10890-10901.	3.5	8
11	High-resolution concentration measurement in water/n-butanol binary system by means of high-frequency electrical impedance method. Experimental Thermal and Fluid Science, 2021, 126, 110399.	2.7	4
12	On the Adequacy of Some Low-Order Moments Method to Simulate Certain Particle Removal Processes. Colloids and Interfaces, 2021, 5, 46.	2.1	2
13	Characterization of Natural Stone from the Archaeological Site of Pella, Macedonia, Northern Greece. Heritage, 2021, 4, 4665-4677.	1.9	4
14	Soft matter dynamics: A versatile microgravity platform to study dynamics in soft matter. Review of Scientific Instruments, 2021, 92, 124503.	1.3	7
15	Droplet size distributions derived from evolution of oil fraction during phase separation of oil-in-water emulsions tracked by electrical impedance spectroscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124292.	4.7	9
16	Associating void fraction signals with bubble clusters features in co-current, upward gas-liquid flow of a non-Newtonian liquid. International Journal of Multiphase Flow, 2020, 131, 103297.	3.4	9
17	On a generalized framework for turbulent collision frequency models in flotation: The road from past inconsistencies to a concise algebraic expression for fine particles. Advances in Colloid and Interface Science, 2020, 284, 102270.	14.7	12
18	An Innovative Miniature Pulsating Emulsification Device: Flow Characterization and Measurement of Emulsion Stability. Colloids and Interfaces, 2020, 4, 7.	2.1	3

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19	A critical review on turbulent collision frequency/efficiency models in flotation: Unravelling the path from general coagulation to flotation. Advances in Colloid and Interface Science, 2020, 279, 102158.	14.7	17
20	The role of flow in bacterial biofilm morphology and wetting properties. Colloids and Surfaces B: Biointerfaces, 2020, 192, 111047.	5.0	18
21	Influence of Newtonian and non-Newtonian fluid behaviour on void fraction and bubble size for a gas-liquid flow of sub-millimeter bubbles at low void fractions. Experimental Thermal and Fluid Science, 2019, 109, 109912.	2.7	10
22	A Note on Liquid Velocities Arising during Decompression Degassing in Hypergravity. Microgravity Science and Technology, 2019, 31, 505-515.	1.4	1
23	Sessile droplets shape response to complex body forces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 572, 97-106.	4.7	10
24	Degassing of a decompressed flowing liquid under hypergravity conditions. International Journal of Multiphase Flow, 2019, 115, 126-136.	3.4	6
25	Contact Angle Profiles for Droplets on Omniphilic Surfaces in the Presence of Tangential Forces. Colloids and Interfaces, 2019, 3, 60.	2.1	3
26	Degassing of a pressurized liquid saturated with dissolved gas when injected to a low pressure liquid pool. Experimental Thermal and Fluid Science, 2018, 96, 347-357.	2.7	13
27	Gas–liquid flow of sub-millimeter bubbles at low void fractions: Experimental study of bubble size distribution and void fraction. International Journal of Heat and Fluid Flow, 2018, 71, 353-365.	2.4	13
28	Gas-liquid flow of sub-millimeter bubbles at low void fractions: Void fraction prediction using drift-flux model. Experimental Thermal and Fluid Science, 2018, 98, 195-205.	2.7	9
29	Effect of initial droplet shape on the tangential force required for spreading and sliding along a solid surface. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 549, 164-173.	4.7	27
30	Image analysis of axisymmetric droplets in wetting experiments: A new tool for the study of 3D droplet geometry and droplet shape reconstruction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 660-671.	4.7	20
31	Effect of channel height and mass flux on highly subcooled horizontal flow boiling. Experimental Thermal and Fluid Science, 2017, 83, 157-168.	2.7	28
32	Thermal analysis of pre-boiling regime in frying experiments at several sample orientations and gravity levels. Food and Bioproducts Processing, 2017, 102, 350-361.	3.6	4
33	Kerberos : A three camera headed centrifugal/tilting device for studying wetting/dewetting under the influence of controlled body forces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 521, 38-48.	4.7	15
34	A Theoretical Study of Steady State and Transient Condensation on Axisymmetric Fins Under Combined Capillary and Gravitational Forces. Microgravity Science and Technology, 2016, 28, 559-567.	1.4	5
35	Aspects of the Two-Layer Model for Direct Contact Condensation of Steam on Wavy Falling Films. Chemical Engineering Communications, 2015, 202, 1535-1546.	2.6	3
36	Bubble–particle collision interaction in flotation systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 473, 95-103.	4.7	55

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37	Effect of bubble size on void fraction fluctuations in dispersed bubble flows. International Journal of Multiphase Flow, 2015, 75, 163-173.	3.4	23
38	Decompression induced bubble dynamics on ex vivo fat and muscle tissue surfaces with a new experimental set up. Colloids and Surfaces B: Biointerfaces, 2015, 129, 121-129.	5.0	13
39	Foam free drainage and bubbles size for surfactant concentrations below the CMC. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 92-103.	4.7	41
40	A population balance treatment of bubble size evolution in free draining foams. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 473, 75-84.	4.7	14
41	Properties of polidocanol foam in view of its use in sclerotherapy. International Journal of Pharmaceutics, 2015, 478, 588-596.	5.2	38
42	On the identification of liquid surface properties using liquid bridges. Advances in Colloid and Interface Science, 2015, 222, 436-445.	14.7	6
43	Spatial considerations on electrical resistance tomography measurements. Measurement Science and Technology, 2014, 25, 055303.	2.6	8
44	Experimental Investigations on Condensation in the Framework of ENhanced COndensers in Microgravity (ENCOM-2) Project. Microgravity Science and Technology, 2014, 26, 335-349.	1.4	10
45	Effect of adding glycerol and Tween 80 on gas holdup and bubble size distribution in an aerated stirred tank. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 815-824.	4.7	17
46	Circulatory bubble dynamics: From physical to biological aspects. Advances in Colloid and Interface Science, 2014, 206, 239-249.	14.7	55
47	Smart and green interfaces: From single bubbles/drops to industrial environmental and biomedical applications. Advances in Colloid and Interface Science, 2014, 209, 109-126.	14.7	23
48	Effect of increased gravitational acceleration in potato deep-fat frying. Food Research International, 2014, 55, 110-118.	6.2	5
49	Interfacial activity of amino acid-based glycerol ether surfactants and their performance in stabilizing O/W cosmetic emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 460, 176-183.	4.7	16
50	Hypergravity to Explore the Role of Buoyancy in Boiling in Porous Media. Microgravity Science and Technology, 2013, 25, 17-25.	1.4	2
51	Towards a wicking rapid test for rejection assessment of reused fried oils: Results and analysis for extra virgin olive oil. Journal of Food Engineering, 2013, 119, 260-270.	5.2	9
52	A critical review of physiological bubble formation in hyperbaric decompression. Advances in Colloid and Interface Science, 2013, 191-192, 22-30.	14.7	58
53	Unexpected natural convection heat transfer for small Rayleigh numbers in external geometry. International Journal of Heat and Mass Transfer, 2013, 64, 773-782.	4.8	5
54	Purified oleosins at air–water interfaces. Soft Matter, 2013, 9, 1354-1363.	2.7	36

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55	Effect of potato deep-fat frying conditions on temperature dependence of olive oil and palm oil viscosity. Journal of Food Engineering, 2012, 113, 217-225.	5.2	15
56	On the capacity of a crust–core model to describe potato deep-fat frying. Food Research International, 2012, 46, 185-193.	6.2	15
57	Surface water evaporation and energy components analysis during potato deep fat frying. Food Research International, 2012, 48, 307-315.	6.2	17
58	Effect of Potato Orientation on Evaporation Front Propagation and Crust Thickness Evolution during Deepâ€Fat Frying. Journal of Food Science, 2012, 77, E297-305.	3.1	8
59	Evaporation Front Compared with Crust Thickness in Potato Deepâ€Fat Frying. Journal of Food Science, 2012, 77, E17-25.	3.1	9
60	Two- and three-phase simulations of an ill-functioning dissolved-air flotation tank. International Journal of Environment and Waste Management, 2011, 8, 215.	0.3	6
61	Effect of repeated frying on the viscosity, density and dynamic interfacial tension of palm and olive oil. Journal of Food Engineering, 2011, 105, 169-179.	5.2	76
62	Effect of Liquid Properties on Heat Transfer from Miniature Heaters at Different Gravity Conditions. Microgravity Science and Technology, 2011, 23, 123-128.	1.4	5
63	Study of the formation of micro and nano-droplets containing immiscible solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 382, 246-250.	4.7	11
64	Heat transfer from small objects in microgravity: Experiments and analysis. International Journal of Heat and Mass Transfer, 2011, 54, 3323-3333.	4.8	8
65	Large wave characteristics and their downstream evolution at high Reynolds number falling films. AICHE Journal, 2010, 56, 11-23.	3.6	1
66	Generation of micro- and nano-droplets containing immiscible solutions in view of optical studies. , 2010, , .		0
67	Reconstruction of film thickness time traces for wavy turbulent free falling films. International Journal of Multiphase Flow, 2010, 36, 184-192.	3.4	6
68	A CFD-based simulation study of a large scale flocculation tank for potable water treatment. Chemical Engineering Journal, 2010, 162, 208-216.	12.7	34
69	Evolution of volume fractions and droplet sizes by analysis of electrical conductance curves during destabilization of oil-in-water emulsions. Journal of Colloid and Interface Science, 2010, 349, 408-416.	9.4	15
70	On the use of electrical conductance measurements for the stability of oil-in-water Pickering emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 365, 181-188.	4.7	19
71	Bubbly flow characteristics during decompression sickness: Effect of surfactant and electrolyte on bubble size distribution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 365, 46-51.	4.7	15
72	4th International Workshop Bubble and Drop Interfaces (B&D2009). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 365, 1.	4.7	0

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73	Effect of potato presence on the degradation of extra virgin olive oil during frying. International Journal of Food Science and Technology, 2010, 45, 765-775.	2.7	28
74	Setting Up a Numerical Model of a DAF Tank: Turbulence, Geometry, and Bubble Size. Journal of Environmental Engineering, ASCE, 2010, 136, 1424-1434.	1.4	14
75	Effect of the Presence and Absence of Potatoes under Repeated Frying Conditions on the Composition of Palm Oil. JAOCS, Journal of the American Oil Chemists' Society, 2009, 86, 561-571.	1.9	28
76	Container effects on the free drainage of wet foams. Chemical Engineering Science, 2009, 64, 1404-1415.	3.8	29
77	A CFD methodology for the design of sedimentation tanks in potable water treatment. Chemical Engineering Journal, 2008, 140, 110-121.	12.7	105
78	Water sorption isotherms and glass transition temperature of spray dried tomato pulp. Journal of Food Engineering, 2008, 85, 73-83.	5.2	269
79	Evaluation of chemical laboratory safety based on student comprehension of chemicals labelling. Education for Chemical Engineers, 2008, 3, e66-e73.	4.8	33
80	Nucleation, growth and detachment of neighboring bubbles over miniature heaters. Chemical Engineering Science, 2008, 63, 3438-3448.	3.8	9
81	Modeling of the optimum tilt of a solar chimney for maximum air flow. Solar Energy, 2008, 82, 80-94.	6.1	111
82	On the design of electrical conductance probes for foam drainage applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 323, 139-148.	4.7	31
83	The effect of influent temperature variations in a sedimentation tank for potable water treatment—A computational fluid dynamics study. Water Research, 2008, 42, 3405-3414.	11.3	43
84	Two-phase simulations of an off-nominally operating dissolved-air flotation tank. International Journal of Environment and Pollution, 2007, 30, 213.	0.2	11
85	Characterization of Tomato Pulp Stickiness during Spray Drying using a Contact Probe Method. Drying Technology, 2007, 25, 591-598.	3.1	11
86	An Advanced Centrifugal Technique to Characterize the Sticking Properties of Tomato Pulp during Drying. Drying Technology, 2007, 25, 599-607.	3.1	4
87	CFD Model for the Design of Large Scale Flotation Tanks for Water and Wastewater Treatment. Industrial & Engineering Chemistry Research, 2007, 46, 6590-6599.	3.7	36
88	Incorporation of hydrodynamic interaction forces to molecular statistical theory of temporary polymer networks in solution. European Polymer Journal, 2007, 43, 3236-3249.	5.4	0
89	Bubble dynamics during the non-isothermal degassing of liquids. Exploiting microgravity conditions. Advances in Colloid and Interface Science, 2007, 134-135, 125-137.	14.7	15
90	Dynamic Surface Activity of Phenylalanine Glycerolâ^ Ether Surfactant Solutions Measured by a Differential Maximum Bubble Pressure Tensiometer. Langmuir, 2006, 22, 46-51.	3.5	7

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91	Reply to "Comment on the Removal Mechanism of Hexavalent Chromium by Biomaterials or Biomaterials-Based Activated Carbons―(Comment on "Diffusion Kinetic Study of Chromium(VI)) Tj ETQq1 1	0,784314	· rgBT /Overlo
	2408-2408.		
92	Load matching in a direct-coupled photovoltaic system-application to Thevenin's equivalent loads. International Journal of Photoenergy, 2006, 2006, 1-7.	2.5	7
93	Sizing stand-alone photovoltaic systems. International Journal of Photoenergy, 2006, 2006, 1-8.	2.5	12
94	Electrical conductance study of Î,-liquid bridges. Journal of Colloid and Interface Science, 2006, 302, 597-604.	9.4	5
95	Conductive drying kinetics of pregelatinized starch thin films. Journal of Food Engineering, 2006, 76, 477-489.	5.2	19
96	Modeling local flotation frequency in a turbulent flow field. Advances in Colloid and Interface Science, 2006, 122, 79-91.	14.7	24
97	Project proposal for the investigation of particle-stabilised emulsions and foams by microgravity experiments. Microgravity Science and Technology, 2006, 18, 104-107.	1.4	18
98	Multicomponent transport studies of crude oils and asphaltenes in DSC program. Microgravity Science and Technology, 2006, 18, 150-154.	1.4	13
99	Lateral motion and interaction of gas bubbles growing over spherical and plate heaters. Microgravity Science and Technology, 2006, 18, 204-209.	1.4	8
100	Approximate computation of heat sources in axisymmetric microwave heating. AICHE Journal, 2006, 52, 408-413.	3.6	16
101	Bubble dynamics during degassing of liquids at microgravity conditions. AICHE Journal, 2006, 52, 3029-3040.	3.6	17
102	Self-similar growth of a gas bubble induced by localized heating: the effect of temperature-dependent transport properties. Chemical Engineering Science, 2005, 60, 1673-1683.	3.8	13
103	Cadmium(II) Biosorption by <i>Aeromonas caviae</i> : Kinetic Modeling. Separation Science and Technology, 2005, 40, 1293-1311.	2.5	19
104	Approximate Solution for a Nonisothermal Gas Bubble Growth over a Spherical Heating Element. Industrial & Engineering Chemistry Research, 2005, 44, 8127-8135.	3.7	7
105	Bubbles growing in supersaturated solutions at reduced gravity. AICHE Journal, 2004, 50, 2369-2382.	3.6	29
106	Diffusion kinetic study of cadmium(II) biosorption byAeromonas caviae. Journal of Chemical Technology and Biotechnology, 2004, 79, 711-719.	3.2	44
107	Equilibrium and kinetic modeling of chromium(VI) biosorption by Aeromonas caviae. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 242, 93-104.	4.7	234
108	A dynamic wicking technique for determining the effective pore radius of pregelatinized starch sheets. Colloids and Surfaces B: Biointerfaces, 2004, 35, 159-167.	5.0	23

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109	Diffusion Kinetic Study of Chromium(VI) Biosorption by Aeromonas caviae. Industrial & Engineering Chemistry Research, 2004, 43, 1748-1755.	3.7	46
110	Mass transfer limitations during starch gelatinization. Carbohydrate Polymers, 2003, 53, 53-61.	10.2	43
111	On the thermal inertia of the wall of a drum dryer under a cyclic steady state operation. Journal of Food Engineering, 2003, 60, 453-462.	5.2	13
112	Kinetic analysis for the removal of a reactive dye from aqueous solution onto hydrotalcite by adsorption. Water Research, 2003, 37, 3023-3033.	11.3	158
113	DESIGN AND TESTING OF A NEW SOLAR TRAY DRYER. Drying Technology, 2002, 20, 1243-1271.	3.1	43
114	A Conductance Study of Reducing Volume Liquid Bridges. Journal of Colloid and Interface Science, 2002, 255, 177-188.	9.4	6
115	Performance of a double drum dryer for producing pregelatinized maize starches. Journal of Food Engineering, 2002, 51, 171-183.	5.2	54
116	Rheological and physical characterization of pregelatinized maize starches. Journal of Food Engineering, 2002, 52, 57-66.	5.2	73
117	Heat transport to a starch slurry gelatinizing between the drums of a double drum dryer. Journal of Food Engineering, 2002, 54, 45-58.	5.2	21
118	Water dispersion kinetics during starch gelatinization. Carbohydrate Polymers, 2002, 49, 479-490.	10.2	36
119	A nomogram method for estimating the energy produced by wind turbine generators. Solar Energy, 2002, 72, 251-259.	6.1	49
120	A New Method for the Characterization of Electrically Conducting Liquid Bridges. Journal of Colloid and Interface Science, 2000, 227, 282-290.	9.4	7
121	Water content measurement of thin sheet starch products using a conductance technique. Journal of Food Engineering, 2000, 46, 91-98.	5.2	19
122	Investigation of the oscillating bubble technique for the determination of interfacial dilatational properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 156, 49-64.	4.7	10
123	Local condensation rates of steam-air mixtures in direct contact with a falling liquid film. International Journal of Heat and Mass Transfer, 1995, 38, 779-794.	4.8	31
124	Direct-contact condensation in the presence of noncondensables over free-falling films with intermittent liquid feed. International Journal of Heat and Mass Transfer, 1995, 38, 795-805.	4.8	12
125	Longitudinal characteristics of wavy falling films. International Journal of Multiphase Flow, 1995, 21, 119-127.	3.4	61
126	Liquid distribution in horizontal axially rotated packed beds. Chemical Engineering Science, 1993, 48, 1427-1436.	3.8	23

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127	A conductance probe for measuring liquid fraction in pipes and packed beds. International Journal of Multiphase Flow, 1992, 18, 653-667.	3.4	94
128	Surface characteristics of roll waves on free falling films. International Journal of Multiphase Flow, 1990, 16, 835-852.	3.4	31
129	Statistical characteristics of free falling films at high reynolds numbers. International Journal of Multiphase Flow, 1989, 15, 1-21.	3.4	127