

# Francesca Ravera

## List of Publications by Citations

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117  
papers

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59  
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121  
ext. papers

4,447  
ext. citations

5.3  
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5.29  
L-index

#	Paper	IF	Citations
117	Effect of nanoparticles on the interfacial properties of liquid/liquid and liquid/air surface layers. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19543-51	3.4	262
116	Influence of surface processes on the dilational visco-elasticity of surfactant solutions. <i>Advances in Colloid and Interface Science</i> , <b>2005</b> , 117, 75-100	14.3	161
115	Liquid-Liquid interfacial properties of mixed nanoparticle-surfactant systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 323, 99-108	5.1	155
114	Interfacial dilational rheology by oscillating bubble/drop methods. <i>Current Opinion in Colloid and Interface Science</i> , <b>2010</b> , 15, 217-228	7.6	142
113	Wettability of silica nanoparticle-surfactant nanocomposite interfacial layers. <i>Soft Matter</i> , <b>2012</b> , 8, 837-843	3.6	123
112	Adsorption and partitioning of surfactants in liquid-liquid systems. <i>Advances in Colloid and Interface Science</i> , <b>2000</b> , 88, 129-77	14.3	111
111	A diffusion-based approach to mixed adsorption kinetics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1996</b> , 114, 351-359	5.1	103
110	Effect of Hydrophilic and Hydrophobic Nanoparticles on the Surface Pressure Response of DPPC Monolayers. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 21715-21722	3.8	91
109	Drop and Bubble Shape Analysis as a Tool For Dilational Rheological Studies of Interfacial Layers. <i>Studies in Interface Science</i> , <b>2001</b> , 11, 439-483		85
108	Wide-frequency dilational rheology investigation of mixed silica nanoparticle-CTAB interfacial layers. <i>Soft Matter</i> , <b>2011</b> , 7, 7699	3.6	84
107	Adsorption Kinetics of Alkylphosphine Oxides at Water/Hexane Interface. <i>Journal of Colloid and Interface Science</i> , <b>1997</b> , 186, 40-5	9.3	84
106	Interfacial rheology of Span 80 adsorbed layers at paraffin oil-water interface and correlation with the corresponding emulsion properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 309, 270-279	5.1	84
105	Dynamic properties of mixed nanoparticle/surfactant adsorption layers. <i>Soft Matter</i> , <b>2013</b> , 9, 3305	3.6	82
104	Sorption Kinetics Considered as a Renormalized Diffusion Process. <i>Journal of Colloid and Interface Science</i> , <b>1993</b> , 156, 109-116	9.3	77
103	Adsorption Kinetics of Alkylphosphine Oxides at Water/Hexane Interface. <i>Journal of Colloid and Interface Science</i> , <b>1997</b> , 186, 46-52	9.3	73
102	DPPC-DOPC Langmuir monolayers modified by hydrophilic silica nanoparticles: Phase behaviour, structure and rheology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 413, 174-183	5.1	70
101	Mixed DPPC-cholesterol Langmuir monolayers in presence of hydrophilic silica nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 105, 284-93	6	63

100	Influence of silica nanoparticles on phase behavior and structural properties of DPPC/palmitic acid Langmuir monolayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 413, 280-287	5.1	62
99	Study of the monolayer structure and wettability properties of silica nanoparticles and CTAB using the Langmuir trough technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 382, 186-191	5.1	60
98	A surface rheological study of non-ionic surfactants at the water/air interface and the stability of the corresponding thin foam films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2007</b> , 298, 12-21	5.1	60
97	Dynamic Interfacial Tension Measurements by a Capillary Pressure Method. <i>Journal of Colloid and Interface Science</i> , <b>1995</b> , 169, 226-237	9.3	60
96	A new experimental method for the measurement of the interfacial tension between immiscible fluids at zero bond number. <i>Journal of Colloid and Interface Science</i> , <b>1991</b> , 146, 152-162	9.3	59
95	Measurement of the surface dilational viscoelasticity of adsorbed layers with a capillary pressure tensiometer. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 255, 225-35	9.3	58
94	Influence of silica nanoparticles on dilational rheology of DPPC/palmitic acid Langmuir monolayers. <i>Soft Matter</i> , <b>2012</b> , 8, 3938	3.6	57
93	Determination of equilibrium surface tension values by extrapolation via long time approximations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1997</b> , 122, 269-273	5.1	53
92	Adsorption layer characteristics of Tritons surfactants: 3. Dilational visco-elasticity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2009</b> , 334, 16-21	5.1	52
91	Surface rheology as a tool for the investigation of processes internal to surfactant adsorption layers. <i>Faraday Discussions</i> , <b>2005</b> , 129, 125-40; discussion 179-92	3.6	50
90	Perturbation-response relationship in liquid interfacial systems: non-linearity assessment by frequency-domain analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2005</b> , 261, 57-63	5.1	50
89	Properties of Fatty Amine/Silica Nanoparticle Interfacial Layers at the Hexane/Water Interface. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 3050-3058	3.8	49
88	Interfacial properties of carbon particulate-laden liquid interfaces and stability of related foams and emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 365, 189-198	5.1	49
87	Biofouling control by superhydrophobic surfaces in shallow euphotic seawater. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 480, 369-375	5.1	47
86	Adsorption Properties of C10E8 at the Water/Hexane Interface. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 10521-10527	3.4	47
85	Particle and Particle-Surfactant Mixtures at Fluid Interfaces: Assembly, Morphology, and Rheological Description. <i>Advances in Condensed Matter Physics</i> , <b>2015</b> , 2015, 1-17	1	44
84	Properties and structure of interfacial layers formed by hydrophilic silica dispersions and palmitic acid. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 607-15	3.6	43
83	Frequency characteristics of amplitude and phase of oscillating bubble systems in a closed measuring cell. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 252, 433-42	9.3	42

82	2D dynamical arrest transition in a mixed nanoparticle-phospholipid layer studied in real and momentum spaces. <i>Scientific Reports</i> , <b>2015</b> , 5, 17930	4.9	39
81	Molecular reorientation in the adsorption of some CiEj at the water-air interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>1999</b> , 156, 455-463	5.1	37
80	Molecular orientation as a controlling process in adsorption dynamics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2000</b> , 175, 51-60	5.1	36
79	Interaction of Carbon Black Particles and Dipalmitoylphosphatidylcholine at the Water/Air Interface: Thermodynamics and Rheology. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 26937-26947	3.8	35
78	Two-dimensional DPPC based emulsion-like structures stabilized by silica nanoparticles. <i>Langmuir</i> , <b>2014</b> , 30, 11504-12	4	35
77	Interfacial Properties of Mixed DPPC/hydrophobic Fumed Silica Nanoparticle Layers. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 21024-21034	3.8	35
76	Modelling of dilational visco-elasticity of adsorbed layers with multiple kinetic processes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 282-283, 210-216	5.1	35
75	Rheological surface properties of C12DMPO solution as obtained from amplitude- and phase-frequency characteristics of an oscillating bubble system. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 280, 498-505	9.3	35
74	Emulsification and emulsion stability: The role of the interfacial properties. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 288, 102344	14.3	35
73	Sorption Kinetics at Liquid-Liquid Interfaces with the Surface-Active Component Soluble in Both Phases. <i>Journal of Colloid and Interface Science</i> , <b>1994</b> , 163, 309-314	9.3	32
72	Equilibrium Interfacial Tension of Hexane/Water plus Triton X-100. <i>Journal of Colloid and Interface Science</i> , <b>1995</b> , 169, 238-240	9.3	32
71	Surfactant adsorption at superhydrophobic surfaces. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 053104	3.4	31
70	Dynamic tensiometric characterization of espresso coffee beverage. <i>Food Hydrocolloids</i> , <b>2004</b> , 18, 387-393	3.6	31
69	Effect of silica nanoparticles on the interfacial properties of a canonical lipid mixture. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 136, 971-80	6	30
68	Adsorption of Sodium Dodecyl Sulfate at Water-Dodecane Interface in Relation to the Oil in Water Emulsion Properties. <i>Langmuir</i> , <b>2018</b> , 34, 5978-5989	4	29
67	Preparation of a superhydrophobic surface by mixed inorganic-organic coating. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 203125	3.4	28
66	Dynamic Elasticity of Adsorption Layers in the Presence of Internal Reorientation Processes. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 195-203	3.4	28
65	Surface dilational rheological properties in the nonlinear domain. <i>Advances in Colloid and Interface Science</i> , <b>2015</b> , 222, 110-8	14.3	26

64	Short time dynamic interfacial tension as studied by the growing drop capillary pressure technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 365, 62-69	5.1	25
63	Effect of the Incorporation of Nanosized Titanium Dioxide on the Interfacial Properties of 1,2-Dipalmitoyl-sn-glycerol-3-phosphocholine Langmuir Monolayers. <i>Langmuir</i> , <b>2017</b> , 33, 10715-10725	4	24
62	Interfacial properties of coffee oils. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 365, 79-82	5.1	24
61	Oscillation of interfacial properties in liquid systems: assessment of harmonic distortion. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 1375-1379	3.6	24
60	Nanoparticle laden interfacial layers and application to foams and solid foams. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 438, 132-140	5.1	23
59	Surface Rheology Investigation of the 2-D Phase Transition in n-Dodecanol Monolayers at the Water/Air Interface. <i>Langmuir</i> , <b>2003</b> , 19, 10233-10240	4	23
58	Drop formation instabilities induced by entrapped gas bubbles. <i>Journal of Colloid and Interface Science</i> , <b>1990</b> , 140, 436-443	9.3	23
57	Surfactants and wetting at superhydrophobic surfaces: water solutions and non aqueous liquids. <i>Advances in Colloid and Interface Science</i> , <b>2010</b> , 161, 22-8	14.3	22
56	Amphiphobic coatings for antifouling in marine environment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2016</b> , 505, 158-164	5.1	22
55	Soot particles at the aqueous interface and effects on foams stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 413, 216-223	5.1	20
54	Determination of the dilational viscoelasticity by the oscillating drop/bubble method in a capillary pressure tensiometer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 365, 2-13	5.1	20
53	Hydrophobic Silica Nanoparticles Induce Gel Phases in Phospholipid Monolayers. <i>Langmuir</i> , <b>2016</b> , 32, 4868-76	4	19
52	Surface properties and foamability of saponin and saponin-chitosan systems. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 181, 198-206	6	18
51	Synthesis of carbon monoliths with a tailored hierarchical pore structure for selective CO <sub>2</sub> capture. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 26, 36-44	7.6	18
50	Project proposal for the investigation of particle-stabilised emulsions and foams by microgravity experiments. <i>Microgravity Science and Technology</i> , <b>2006</b> , 18, 104-107	1.6	17
49	Adsorption and surface rheology of n-dodecanol at the water/air interface. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 272, 277-80	9.3	17
48	Characterization of surfactant aggregates at solid-liquid surfaces by atomic force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2004</b> , 249, 63-67	5.1	17
47	Surfactant induced complex formation and their effects on the interfacial properties of seawater. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2014</b> , 123, 701-9	6	16

46	Dilational rheology of spread and adsorbed layers of silica nanoparticles at the liquid-gas interface. <i>Colloid Journal</i> , <b>2014</b> , 76, 127-138	1.1	15
45	Interfacial properties of coffee-based beverages. <i>Food Hydrocolloids</i> , <b>2007</b> , 21, 1374-1378	10.6	15
44	Dynamic Surface Elasticity of Adsorption Layers in the Presence of a Surface Phase Transition from Monomers to Large Aggregates. <i>Langmuir</i> , <b>2002</b> , 18, 3592-3599	4	15
43	Adsorption layer properties and foam film drainage of aqueous solutions of tetraethyleneglycol monododecyl ether. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2011</b> , 392, 233-245	5.1	14
42	Carbon Soot-Ionic Surfactant Mixed Layers at Water/Air Interfaces. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 3618-25	1.3	13
41	A multi-probe non-intrusive electrical technique for monitoring emulsification of hexane-in-water with the emulsifier C10E5 soluble in both phases. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2010</b> , 354, 353-363	5.1	13
40	Capillary pressure tensiometry and applications in microgravity. <i>Studies in Interface Science</i> , <b>1998</b> , 6, 239-278		13
39	Dilational surface elasticity of spread monolayers of pulmonary lipids in a broad range of surface pressure. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2018</b> , 541, 137-144	5.1	12
38	Effect of tea polyphenols on the dilational rheology of human whole saliva (HWS): part 2, polyphenols-HWS interaction. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 110, 474-9	6	12
37	Capillary pressure studies under low gravity conditions. <i>Advances in Colloid and Interface Science</i> , <b>2010</b> , 161, 102-14	14.3	12
36	Surface properties of binary TiO <sub>2</sub> - SiO <sub>2</sub> nanoparticle dispersions relevant for foams stabilization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 575, 299-309	5.1	11
35	Dynamic interfacial properties of drops relevant to W/O-emulsion-forming systems: A refined measurement apparatus. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 323, 3-11	5.1	11
34	Film tension and dilational film rheology of a single foam bubble. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2005</b> , 261, 115-121	5.1	11
33	Adsorption kinetics of the ionic surfactant decanoic acid. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 102, 36-44	4.9	11
32	Carbon based porous materials from particle stabilized wet foams. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 473, 24-31	5.1	10
31	The role of emulsifier in stabilization of emulsions containing colloidal alumina particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 413, 239-247	5.1	10
30	Interaction of Particles with Langmuir Monolayers of 1,2-Dipalmitoyl-Sn-Glycero-3-Phosphocholine: A Matter of Chemistry?. <i>Coatings</i> , <b>2020</b> , 10, 469	2.9	9
29	Effect of tea polyphenols on the dilational rheology of human whole saliva (HWS): Part 1, HWS characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 110, 466-73	6	9



28	Interfacial Properties and Emulsification of Biocompatible Liquid-Liquid Systems. <i>Coatings</i> , <b>2020</b> , 10, 397	2.9	7
27	Methods and models to investigate the physicochemical functionality of pulmonary surfactant. <i>Current Opinion in Colloid and Interface Science</i> , <b>2021</b> , 55, 101467	7.6	7
26	Activated carbon monoliths from particle stabilized foams. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 239, 45-53	5.3	5
25	Spherical cap-shaped emulsion films: thickness evaluation at the nanoscale level by the optical evanescent wave effect. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2012</b> , 413, 101-107	5.1	5
24	Wetting of Single and Mixed Surfactant Solutions on Superhydrophobic Surfaces. <i>Journal of Adhesion Science and Technology</i> , <b>2009</b> , 23, 483-492	2	5
23	Optical observation of high-frequency drop oscillations by a spectrum compression technique applied to the capillary pressure tensiometry. <i>Langmuir</i> , <b>2009</b> , 25, 12780-6	4	5
22	Results of microgravity investigation on adsorption and interfacial rheology of soluble surfactants from the experiment FAST onboard STS-107. <i>Microgravity Science and Technology</i> , <b>2006</b> , 18, 112-116	1.6	5
21	Results of the Facility for Adsorption and Surface Tension (FAST) experiments onboard STS-107, in the framework of the project FASES. <i>Microgravity Science and Technology</i> , <b>2005</b> , 16, 196-200	1.6	5
20	Adsorption properties of C10E8 at water/ hexane interface investigated onboard STS-107, by the FAST Facility. <i>Microgravity Science and Technology</i> , <b>2005</b> , 16, 201-204	1.6	5
19	Recent developments in emulsion characterization: Diffusing Wave Spectroscopy beyond average values. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 288, 102341	14.3	5
18	Dynamic properties of Span-80 adsorbed layers at paraffin-oil/water interface: Capillary pressure experiments under low gravity conditions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 532, 228-243	5.1	4
17	Diffusing wave spectroscopy for investigating emulsions: II. Characterization of a paradigmatic oil-in-water emulsion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 580, 123724 <sup>5.1</sup>	5.1	4
16	Analysis of amplitude- and phase-frequency characteristics of oscillating bubble system with closed measuring cell. <i>Microgravity Science and Technology</i> , <b>2005</b> , 16, 186-190	1.6	4
15	M.I.T.E. maser-4 results: Interfacial tension measurement in microgravity and drop growth instabilities. <i>Advances in Space Research</i> , <b>1991</b> , 11, 59-68	2.4	4
14	Effect of Temperature on the Dynamic Properties of Mixed Surfactant Adsorbed Layers at the Water/Hexane Interface under Low-Gravity Conditions. <i>Colloids and Interfaces</i> , <b>2020</b> , 4, 27	3	4
13	A Multistate Adsorption Model for the Adsorption of C14EO4 and C14EO8 at the Solution/Air Interface. <i>Colloids and Interfaces</i> , <b>2021</b> , 5, 39	3	4
12	Dynamic Properties of Mixed Cationic/Nonionic Adsorbed Layers at the N-Hexane/Water Interface: Capillary Pressure Experiments Under Low Gravity Conditions. <i>Colloids and Interfaces</i> , <b>2018</b> , 2, 53	3	4
11	Messung der dynamischen Grenzflächen-spannung im System wäßrige Tensidlösung/organisches Lösungsmittel. <i>Chemie-Ingenieur-Technik</i> , <b>1998</b> , 70, 89-99	0.8	3

10	Dynamic capillary pressure measurements in the short time range by applying a fast growing drop technique. <i>Microgravity Science and Technology</i> , <b>2006</b> , 18, 95-99	1.6	3
9	Thermodynamics, Kinetics and Dilational Visco-Elasticity of Adsorbed CnEOM Layers at the Aqueous Solution/Air Interface. <i>Colloids and Interfaces</i> , <b>2021</b> , 5, 16	3	3
8	Evaluating the Impact of Hydrophobic Silicon Dioxide in the Interfacial Properties of Lung Surfactant Films.. <i>Environmental Science &amp; Technology</i> , <b>2022</b> ,	10.3	2
7	Evaluation of the impact of carbonaceous particles in the mechanical performance of lipid Langmuir monolayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2022</b> , 634, 127974 <sup>1</sup>	5.1	2
6	The Role of Endogenous Proteins on the Emulsification of Silicone Oils Used in Vitreoretinal Surgery. <i>BioMed Research International</i> , <b>2020</b> , 2020, 2915010	3	2
5	Facility for adsorption and surface tension studies (FAST) on board of shuttle STS-107 mission: Determination of the surface dilational modulus as a function of concentration and temperature for aqueous solutions of dodecyl-dimethyl-phosphine-oxide, in the 0.010.32 Hz frequency range. <i>Microgravity Science and Technology</i> , <b>2006</b> , 18, 188-193	1.6	1
4	Interfacial Dilational Viscoelasticity of Adsorption Layers at the Hydrocarbon/Water Interface: The Fractional Maxwell Model. <i>Colloids and Interfaces</i> , <b>2019</b> , 3, 66	3	1
3	Effects of Oil Phase on the Inversion of Pickering Emulsions Stabilized by Palmitic Acid Decorated Silica Nanoparticles. <i>Colloids and Interfaces</i> , <b>2022</b> , 6, 27	3	0
2	Recent Developments in Dilational Viscoelasticity of Surfactant Layers <b>2014</b> , 313-344		
1	Recent Developments in Dilational Viscoelasticity of Surfactant Layers <b>2011</b> , 313-344		