Eduardo Guzman

List of Publications by Year in Descending Order

96 papers	2,824 citations	31 h-index	49 g-index
102 ext. papers	3,408 ext. citations	5.1 avg, IF	5.7 L-index

#	Paper	IF	Citations
96	Evaluating the Impact of Hydrophobic Silicon Dioxide in the Interfacial Properties of Lung Surfactant Films.. *Environmental Science & Technology*, **2022**,	10.3	2
95	Polyelectrolyte Multilayered Capsules as Biomedical Tools.. *Polymers*, **2022**, 14,	4.5	3
94	Evaluation of the impact of carbonaceous particles in the mechanical performance of lipid Langmuir monolayers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 634, 127974	5.1	2
93	Fluid Films as Models for Understanding the Impact of Inhaled Particles in Lung Surfactant Layers. *Coatings*, **2022**, 12, 277	2.9	0
92	Study of the Dilution-Induced Deposition of Concentrated Mixtures of Polyelectrolytes and Surfactants.. *Polymers*, **2022**, 14,	4.5	1
91	A broad perspective to particle-laden fluid interfaces systems: from chemically homogeneous particles to active colloids.. *Advances in Colloid and Interface Science*, **2022**, 302, 102620	14.3	3
90	Effects of Oil Phase on the Inversion of Pickering Emulsions Stabilized by Palmitic Acid Decorated Silica Nanoparticles. *Colloids and Interfaces*, **2022**, 6, 27	3	0
89	Layer-by-Layer Materials for the Fabrication of Devices with Electrochemical Applications. *Energies*, **2022**, 15, 3399	3.1	1
88	Electrostatic Layer-by-Layer Self-Assembly Method: A Physico-Chemical Perspective **2022**, 169-202		
87	Essential Oils and Their Individual Components in Cosmetic Products. *Cosmetics*, **2021**, 8, 114	2.7	13
86	Performance of Oleic Acid and Soybean Oil in the Preparation of Oil-in-Water Microemulsions for Encapsulating a Highly Hydrophobic Molecule. *Colloids and Interfaces*, **2021**, 5, 50	3	0
85	Interaction of Polyelectrolytes and Surfactants on Hair Surfaces. Deposits and their Characterization **2021**, 401-449		0
84	Physico-chemical study of polymer mixtures formed by a polycation and a zwitterionic copolymer in aqueous solution and upon adsorption onto negatively charged surfaces. *Polymer*, **2021**, 217, 123442	3.9	8
83	Polyelectrolyte Multilayers on Soft Colloidal Nanosurfaces: A New Life for the Layer-By-Layer Method. *Polymers*, **2021**, 13,	4.5	16
82	Monolayers of Cholesterol and Cholesteryl Stearate at the Water/Vapor Interface: A Physico-Chemical Study of Components of the Meibum Layer. *Colloids and Interfaces*, **2021**, 5, 30	3	3
81	Fabrication of Robust Capsules by Sequential Assembly of Polyelectrolytes onto Charged Liposomes. *Langmuir*, **2021**, 37, 6189-6200	4	4
80	Particle-laden fluid/fluid interfaces: physico-chemical foundations. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	5

79	Nanoemulsions for the Encapsulation of Hydrophobic Actives. *Cosmetics*, **2021**, 8, 45	2.7	2
78	Emulsions containing essential oils, their components or volatile semiochemicals as promising tools for insect pest and pathogen management. *Advances in Colloid and Interface Science*, **2021**, 287, 102330	14.3	27
77	Evaporation of Sessile Droplets of Polyelectrolyte/Surfactant Mixtures on Silicon Wafers. *Colloids and Interfaces*, **2021**, 5, 12	3	4
76	Pattern Formation upon Evaporation of Sessile Droplets of Polyelectrolyte/Surfactant Mixtures on Silicon Wafers. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
75	Oil in Water Nanoemulsions Loaded with Tebuconazole for Populus Wood Protection against White- and Brown-Rot Fungi. *Forests*, **2021**, 12, 1234	2.8	3
74	Adsorption of Mixtures of a Pegylated Lipid with Anionic and Zwitterionic Surfactants at Solid/Liquid. *Colloids and Interfaces*, **2020**, 4, 47	3	7
73	Surfactantless Emulsions Containing Eugenol for Imidacloprid Solubilization: Physicochemical Characterization and Toxicity against Insecticide-Resistant. *Molecules*, **2020**, 25,	4.8	9
72	A closer physico-chemical look to the Layer-by-Layer electrostatic self-assembly of polyelectrolyte multilayers. *Advances in Colloid and Interface Science*, **2020**, 282, 102197	14.3	48
71	Interaction of Particles with Langmuir Monolayers of 1,2-Dipalmitoyl-Sn-Glycero-3-Phosphocholine: A Matter of Chemistry?. *Coatings*, **2020**, 10, 469	2.9	9
70	Self-Consistent Mean Field Calculations of Polyelectrolyte-Surfactant Mixtures in Solution and upon Adsorption onto Negatively Charged Surfaces. *Polymers*, **2020**, 12,	4.5	10
69	Impact of the bulk aggregation on the adsorption of oppositely charged polyelectrolyte-surfactant mixtures onto solid surfaces. *Advances in Colloid and Interface Science*, **2020**, 282, 102203	14.3	12
68	Development of an Environmentally Friendly Larvicidal Formulation Based on Essential Oil Compound Blend to Control Aedes aegypti Larvae: Correlations between Physicochemical Properties and Insecticidal Activity. *ACS Sustainable Chemistry and Engineering*, **2020**,	8.3	8
67	Physicochemical Aspects of the Performance of Hair-Conditioning Formulations. *Cosmetics*, **2020**, 7, 26	2.7	9
66	Influence of Carbon Nanosheets on the Behavior of 1,2-Dipalmitoyl-sn-glycerol-3-phosphocholine Langmuir Monolayers. *Processes*, **2020**, 8, 94	2.9	8
65	Effect of molecular structure of eco-friendly glycolipid biosurfactants on the adsorption of hair-care conditioning polymers. *Colloids and Surfaces B: Biointerfaces*, **2020**, 185, 110578	6	31
64	Effect of a natural amphoteric surfactant in the bulk and adsorption behavior of polyelectrolyte-surfactant mixtures. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 585, 124178	5.1	21
63	Enhanced solubilization of an insect juvenile hormone (JH) mimetic (piryproxyfen) using eugenol in water nanoemulsions stabilized by a triblock copolymer of poly(ethylenglycol) and poly(propilenglycol). *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 606, 125513	5.1	8
62	Behavior of the water/vapor interface of chitosan solutions with an anionic surfactant: effect of polymer-surfactant interactions. *Physical Chemistry Chemical Physics*, **2020**, 22, 23360-23373	3.6	9

61	Deposition of Synthetic and Bio-Based Polycations onto Negatively Charged Solid Surfaces: Effect of the Polymer Cationicity, Ionic Strength, and the Addition of an Anionic Surfactant. *Colloids and Interfaces*, **2020**, 4, 33	3	12
60	Equilibrium and kinetically trapped aggregates in polyelectrolyte–oppositely charged surfactant mixtures. *Current Opinion in Colloid and Interface Science*, **2020**, 48, 91-108	7.6	22
59	Lung surfactant-particles at fluid interfaces for toxicity assessments. *Current Opinion in Colloid and Interface Science*, **2019**, 39, 24-39	7.6	24
58	Two Different Scenarios for the Equilibration of Polycation–Anionic Solutions at Water–Vapor Interfaces. *Coatings*, **2019**, 9, 438	2.9	21
57	Surfactant-Like Behavior for the Adsorption of Mixtures of a Polycation and Two Different Zwitterionic Surfactants at the Water/Vapor Interface. *Molecules*, **2019**, 24,	4.8	17
56	Drops and Bubbles as Controlled Traveling Reactors and/or Carriers Including Microfluidics Aspects. *Springer Proceedings in Physics*, **2019**, 255-276	0.2	
55	Colloids at Fluid Interfaces. *Processes*, **2019**, 7, 942	2.9	10
54	Oil-In-Water Microemulsions for Thymol Solubilization. *Colloids and Interfaces*, **2019**, 3, 64	3	12
53	Study of the Liquid/Vapor Interfacial Properties of Concentrated Polyelectrolyte–Surfactant Mixtures Using Surface Tensiometry and Neutron Reflectometry: Equilibrium, Adsorption Kinetics, and Dilational Rheology. *Journal of Physical Chemistry C*, **2018**, 122, 4419-4427	3.8	32
52	Towards understanding the behavior of polyelectrolyte-surfactant mixtures at the water/vapor interface closer to technologically-relevant conditions. *Physical Chemistry Chemical Physics*, **2018**, 20, 1395-1407	3.6	31
51	Environmentally friendly platforms for encapsulation of an essential oil: Fabrication, characterization and application in pests control. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 555, 473-481	5.1	12
50	Physico-chemical foundations of particle-laden fluid interfaces. *European Physical Journal E*, **2018**, 41, 97	1.5	25
49	Shear rheology of fluid interfaces: Closing the gap between macro- and micro-rheology. *Current Opinion in Colloid and Interface Science*, **2018**, 37, 33-48	7.6	28
48	Preparation and Application in Drug Storage and Delivery of Agarose Nanoparticles. *International Journal of Polymer Science*, **2018**, 2018, 1-9	2.4	12
47	Tuning Interfacial Properties and Processes by Controlling the Rheology and Structure of Poly(N-isopropylacrylamide) Particles at Air/Water Interfaces. *Langmuir*, **2018**, 34, 7067-7076	4	31
46	On the autonomous motion of active drops or bubbles. *Journal of Colloid and Interface Science*, **2018**, 527, 180-186	9.3	10
45	Equilibration of a Polycation-Anionic Surfactant Mixture at the Water/Vapor Interface. *Langmuir*, **2018**, 34, 7455-7464	4	24
44	Formation of surfactant free microemulsions in the ternary system water/eugenol/ethanol. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 521, 133-140	5.1	29

43	Layer-by-Layer polyelectrolyte assemblies for encapsulation and release of active compounds. *Advances in Colloid and Interface Science*, **2017**, 249, 290-307	14.3	87
42	Novel polymeric micelles for insect pest control: encapsulation of essential oil monoterpenes inside a triblock copolymer shell for head lice control. *PeerJ*, **2017**, 5, e3171	3.1	36
41	Effect of the Incorporation of Nanosized Titanium Dioxide on the Interfacial Properties of 1,2-Dipalmitoyl-sn-glycerol-3-phosphocholine Langmuir Monolayers. *Langmuir*, **2017**, 33, 10715-10725	4	24
40	Thermo- and soluto-capillarity: Passive and active drops. *Advances in Colloid and Interface Science*, **2017**, 247, 52-80	14.3	21
39	Polymer-surfactant systems in bulk and at fluid interfaces. *Advances in Colloid and Interface Science*, **2016**, 233, 38-64	14.3	135
38	3D solid supported inter-polyelectrolyte complexes obtained by the alternate deposition of poly(diallyldimethylammonium chloride) and poly(sodium 4-styrenesulfonate). *Beilstein Journal of Nanotechnology*, **2016**, 7, 197-208	3	13
37	Adsorption of poly(diallyldimethylammonium chloride)–sodium methyl-cocoyl-taurate complexes onto solid surfaces. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2016**, 505, 150-157	5.1	29
36	Hydrophobic Silica Nanoparticles Induce Gel Phases in Phospholipid Monolayers. *Langmuir*, **2016**, 32, 4868-76	4	19
35	Comment on "Formation of polyelectrolyte multilayers: ionic strengths and growth regimes" by K. Tang and A. M. Besseling, Soft Matter, 2016, 12, 1032. *Soft Matter*, **2016**, 12, 8460-8463	3.6	7
34	Interaction of Carbon Black Particles and Dipalmitoylphosphatidylcholine at the Water/Air Interface: Thermodynamics and Rheology. *Journal of Physical Chemistry C*, **2015**, 119, 26937-26947	3.8	35
33	Biofouling control by superhydrophobic surfaces in shallow euphotic seawater. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 480, 369-375	5.1	47
32	Adsorption of polyelectrolytes and polyelectrolytes-surfactant mixtures at surfaces: a physico-chemical approach to a cosmetic challenge. *Advances in Colloid and Interface Science*, **2015**, 222, 461-87	14.3	79
31	2D dynamical arrest transition in a mixed nanoparticle-phospholipid layer studied in real and momentum spaces. *Scientific Reports*, **2015**, 5, 17930	4.9	39
30	Effect of silica nanoparticles on the interfacial properties of a canonical lipid mixture. *Colloids and Surfaces B: Biointerfaces*, **2015**, 136, 971-80	6	30
29	Particle and Particle-Surfactant Mixtures at Fluid Interfaces: Assembly, Morphology, and Rheological Description. *Advances in Condensed Matter Physics*, **2015**, 2015, 1-17	1	44
28	Carbon Soot-Ionic Surfactant Mixed Layers at Water/Air Interfaces. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 3618-25	1.3	13
27	Interfacial Properties of Mixed DPPC–Hydrophobic Fumed Silica Nanoparticle Layers. *Journal of Physical Chemistry C*, **2015**, 119, 21024-21034	3.8	35
26	Emulsions stabilized by the interaction of silica nanoparticles and palmitic acid at the water–hexane interface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 460, 333-341	5.1	49

25	Particle laden fluid interfaces: dynamics and interfacial rheology. *Advances in Colloid and Interface Science*, **2014**, 206, 303-19	14.3	126
24	Two-dimensional DPPC based emulsion-like structures stabilized by silica nanoparticles. *Langmuir*, **2014**, 30, 11504-12	4	35
23	Contact angle of micro- and nanoparticles at fluid interfaces. *Current Opinion in Colloid and Interface Science*, **2014**, 19, 355-367	7.6	105
22	Surfactant induced complex formation and their effects on the interfacial properties of seawater. *Colloids and Surfaces B: Biointerfaces*, **2014**, 123, 701-9	6	16
21	Mixed DPPC-cholesterol Langmuir monolayers in presence of hydrophilic silica nanoparticles. *Colloids and Surfaces B: Biointerfaces*, **2013**, 105, 284-93	6	63
20	Salt effects on the air/solution interfacial properties of PEO-containing copolymers: equilibrium, adsorption kinetics and surface rheological behavior. *Journal of Colloid and Interface Science*, **2013**, 400, 49-58	9.3	27
19	Nanoparticle laden interfacial layers and application to foams and solid foams. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 438, 132-140	5.1	23
18	Growth of Polyelectrolyte Layers Formed by Poly(4-styrenesulfonate sodium salt) and Two Different Polycations: New Insights from Study of Adsorption Kinetics. *Journal of Physical Chemistry C*, **2012**, 116, 15474-15483	3.8	49
17	Wettability of silica nanoparticle surfactant nanocomposite interfacial layers. *Soft Matter*, **2012**, 8, 837-843	3.6	123
16	Properties and structure of interfacial layers formed by hydrophilic silica dispersions and palmitic acid. *Physical Chemistry Chemical Physics*, **2012**, 14, 607-15	3.6	43
15	Influence of silica nanoparticles on phase behavior and structural properties of DPPC palmitic acid Langmuir monolayers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 413, 280-287	5.1	62
14	DPPC DOPC Langmuir monolayers modified by hydrophilic silica nanoparticles: Phase behaviour, structure and rheology. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 413, 174-183	5.1	70
13	Influence of silica nanoparticles on dilational rheology of DPPC palmitic acid Langmuir monolayers. *Soft Matter*, **2012**, 8, 3938	3.6	57
12	Effect of Hydrophilic and Hydrophobic Nanoparticles on the Surface Pressure Response of DPPC Monolayers. *Journal of Physical Chemistry C*, **2011**, 115, 21715-21722	3.8	91
11	pH-induced changes in the fabrication of multilayers of poly(acrylic acid) and chitosan: fabrication, properties, and tests as a drug storage and delivery system. *Langmuir*, **2011**, 27, 6836-45	4	64
10	Influence of the molecular architecture on the adsorption onto solid surfaces: comb-like polymers. *Physical Chemistry Chemical Physics*, **2011**, 13, 16416-23	3.6	25
9	Adsorption of conditioning polymers on solid substrates with different charge density. *ACS Applied Materials & Interfaces*, **2011**, 3, 3181-8	9.5	42
8	Fluid to soft-glass transition in a quasi-2D system: thermodynamic and rheological evidences for a Langmuir monolayer. *Physical Chemistry Chemical Physics*, **2011**, 13, 9534-9	3.6	21

7	Influence of the percentage of acetylation on the assembly of LbL multilayers of poly(acrylic acid) and chitosan. *Physical Chemistry Chemical Physics*, **2011**, 13, 18200-7	3.6	40
6	Effect of the molecular structure on the adsorption of conditioning polyelectrolytes on solid substrates. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 375, 209-218	5.1	46
5	Evidence of the influence of adsorption kinetics on the internal reorganization of polyelectrolyte multilayers. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 384, 274-281	5.1	38
4	Polyelectrolyte multilayers containing triblock copolymers of different charge ratio. *Langmuir*, **2010**, 26, 11494-502	4	37
3	Adsorption kinetics and mechanical properties of ultrathin polyelectrolyte multilayers: liquid-supported versus solid-supported films. *Journal of Physical Chemistry B*, **2009**, 113, 7128-37	3.4	66
2	Salt-induced changes in the growth of polyelectrolyte layers of poly(diallyl-dimethylammonium chloride) and poly(4-styrene sulfonate of sodium). *Soft Matter*, **2009**, 5, 2130	3.6	149
1	Dielectric and dynamic-mechanical study of the mobility of poly(t-butylacrylate) chains in diblock copolymers: Polystyrene-b-poly(t-butylacrylate). *Polymer*, **2008**, 49, 5650-5658	3.9	20