

Eduardo Guzman

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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	Salt-induced changes in the growth of polyelectrolyte layers of poly(diallyl-dimethylammonium chloride) and poly(4-styrene sulfonate of sodium). <i>Soft Matter</i> , 2009 , 5, 2130	3.6	149
95	Polymer-surfactant systems in bulk and at fluid interfaces. <i>Advances in Colloid and Interface Science</i> , 2016 , 233, 38-64	14.3	135
94	Particle laden fluid interfaces: dynamics and interfacial rheology. <i>Advances in Colloid and Interface Science</i> , 2014 , 206, 303-19	14.3	126
93	Wettability of silica nanoparticle-surfactant nanocomposite interfacial layers. <i>Soft Matter</i> , 2012 , 8, 837-843	3.6	123
92	Contact angle of micro- and nanoparticles at fluid interfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2014 , 19, 355-367	7.6	105
91	Effect of Hydrophilic and Hydrophobic Nanoparticles on the Surface Pressure Response of DPPC Monolayers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21715-21722	3.8	91
90	Layer-by-Layer polyelectrolyte assemblies for encapsulation and release of active compounds. <i>Advances in Colloid and Interface Science</i> , 2017 , 249, 290-307	14.3	87
89	Adsorption of polyelectrolytes and polyelectrolytes-surfactant mixtures at surfaces: a physico-chemical approach to a cosmetic challenge. <i>Advances in Colloid and Interface Science</i> , 2015 , 222, 461-87	14.3	79
88	DPPC/DOPC Langmuir monolayers modified by hydrophilic silica nanoparticles: Phase behaviour, structure and rheology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 413, 174-183	5.1	70
87	Adsorption kinetics and mechanical properties of ultrathin polyelectrolyte multilayers: liquid-supported versus solid-supported films. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7128-37	3.4	66
86	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. <i>Langmuir</i> , 2011 , 27, 6836-45	4	64
85	Mixed DPPC-cholesterol Langmuir monolayers in presence of hydrophilic silica nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 105, 284-93	6	63
84	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> , 2012 , 413, 280-287	5.1	62
83	Influence of silica nanoparticles on dilational rheology of DPPC/palmitic acid Langmuir monolayers. <i>Soft Matter</i> , 2012 , 8, 3938	3.6	57
82	Emulsions stabilized by the interaction of silica nanoparticles and palmitic acid at the water-hexane interface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 460, 333-341	5.1	49
81	Growth of Polyelectrolyte Layers Formed by Poly(4-styrenesulfonate sodium salt) and Two Different Polycations: New Insights from Study of Adsorption Kinetics. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15474-15483	3.8	49
80	A closer physico-chemical look to the Layer-by-Layer electrostatic self-assembly of polyelectrolyte multilayers. <i>Advances in Colloid and Interface Science</i> , 2020 , 282, 102197	14.3	48

79	Biofouling control by superhydrophobic surfaces in shallow euphotic seawater. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 480, 369-375	5.1	47
78	Effect of the molecular structure on the adsorption of conditioning polyelectrolytes on solid substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 375, 209-218	5.1	46
77	Particle and Particle-Surfactant Mixtures at Fluid Interfaces: Assembly, Morphology, and Rheological Description. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-17	1	44
76	Properties and structure of interfacial layers formed by hydrophilic silica dispersions and palmitic acid. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 607-15	3.6	43
75	Adsorption of conditioning polymers on solid substrates with different charge density. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 3181-8	9.5	42
74	Influence of the percentage of acetylation on the assembly of LbL multilayers of poly(acrylic acid) and chitosan. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 18200-7	3.6	40
73	2D dynamical arrest transition in a mixed nanoparticle-phospholipid layer studied in real and momentum spaces. <i>Scientific Reports</i> , 2015 , 5, 17930	4.9	39
72	Evidence of the influence of adsorption kinetics on the internal reorganization of polyelectrolyte multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011 , 384, 274-281	5.1	38
71	Polyelectrolyte multilayers containing triblock copolymers of different charge ratio. <i>Langmuir</i> , 2010 , 26, 11494-502	4	37
70	Novel polymeric micelles for insect pest control: encapsulation of essential oil monoterpenes inside a triblock copolymer shell for head lice control. <i>PeerJ</i> , 2017 , 5, e3171	3.1	36
69	Interaction of Carbon Black Particles and Dipalmitoylphosphatidylcholine at the Water/Air Interface: Thermodynamics and Rheology. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26937-26947	3.8	35
68	Two-dimensional DPPC based emulsion-like structures stabilized by silica nanoparticles. <i>Langmuir</i> , 2014 , 30, 11504-12	4	35
67	Interfacial Properties of Mixed DPPC/Hydrophobic Fumed Silica Nanoparticle Layers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21024-21034	3.8	35
66	Study of the Liquid/Vapor Interfacial Properties of Concentrated Polyelectrolyte/Surfactant Mixtures Using Surface Tensiometry and Neutron Reflectometry: Equilibrium, Adsorption Kinetics, and Dilational Rheology. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4419-4427	3.8	32
65	Towards understanding the behavior of polyelectrolyte-surfactant mixtures at the water/vapor interface closer to technologically-relevant conditions. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1395-1407	3.6	31
64	Effect of molecular structure of eco-friendly glycolipid biosurfactants on the adsorption of hair-care conditioning polymers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 185, 110578	6	31
63	Tuning Interfacial Properties and Processes by Controlling the Rheology and Structure of Poly(N-isopropylacrylamide) Particles at Air/Water Interfaces. <i>Langmuir</i> , 2018 , 34, 7067-7076	4	31
62	Effect of silica nanoparticles on the interfacial properties of a canonical lipid mixture. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 971-80	6	30

61	Formation of surfactant free microemulsions in the ternary system water/eugenol/ethanol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 521, 133-140	5.1	29
60	Adsorption of poly(diallyldimethylammonium chloride)Sodium methyl-cocoyl-aurate complexes onto solid surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 505, 150-157	5.1	29
59	Shear rheology of fluid interfaces: Closing the gap between macro- and micro-rheology. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 37, 33-48	7.6	28
58	Salt effects on the air/solution interfacial properties of PEO-containing copolymers: equilibrium, adsorption kinetics and surface rheological behavior. <i>Journal of Colloid and Interface Science</i> , 2013 , 400, 49-58	9.3	27
57	Emulsions containing essential oils, their components or volatile semiochemicals as promising tools for insect pest and pathogen management. <i>Advances in Colloid and Interface Science</i> , 2021 , 287, 102330	14.3	27
56	Physico-chemical foundations of particle-laden fluid interfaces. <i>European Physical Journal E</i> , 2018 , 41, 97	1.5	25
55	Influence of the molecular architecture on the adsorption onto solid surfaces: comb-like polymers. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 16416-23	3.6	25
54	Lung surfactant-particles at fluid interfaces for toxicity assessments. <i>Current Opinion in Colloid and Interface Science</i> , 2019 , 39, 24-39	7.6	24
53	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> , 2017 , 33, 10715-10725	4	24
52	Equilibration of a Polycation-Anionic Surfactant Mixture at the Water/Vapor Interface. <i>Langmuir</i> , 2018 , 34, 7455-7464	4	24
51	Nanoparticle laden interfacial layers and application to foams and solid foams. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 438, 132-140	5.1	23
50	Equilibrium and kinetically trapped aggregates in polyelectrolyte oppositely charged surfactant mixtures. <i>Current Opinion in Colloid and Interface Science</i> , 2020 , 48, 91-108	7.6	22
49	Two Different Scenarios for the Equilibration of Polycation Anionic Solutions at Water Vapor Interfaces. <i>Coatings</i> , 2019 , 9, 438	2.9	21
48	Thermo- and soluto-capillarity: Passive and active drops. <i>Advances in Colloid and Interface Science</i> , 2017 , 247, 52-80	14.3	21
47	Fluid to soft-glass transition in a quasi-2D system: thermodynamic and rheological evidences for a Langmuir monolayer. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 9534-9	3.6	21
46	Effect of a natural amphoteric surfactant in the bulk and adsorption behavior of polyelectrolyte-surfactant mixtures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 585, 124178	5.1	21
45	Dielectric and dynamic-mechanical study of the mobility of poly(t-butylacrylate) chains in diblock copolymers: Polystyrene-b-poly(t-butylacrylate). <i>Polymer</i> , 2008 , 49, 5650-5658	3.9	20
44	Hydrophobic Silica Nanoparticles Induce Gel Phases in Phospholipid Monolayers. <i>Langmuir</i> , 2016 , 32, 4868-76	4	19

43	Surfactant-Like Behavior for the Adsorption of Mixtures of a Polycation and Two Different Zwitterionic Surfactants at the Water/Vapor Interface. <i>Molecules</i> , 2019 , 24,	4.8	17
42	Surfactant induced complex formation and their effects on the interfacial properties of seawater. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 123, 701-9	6	16
41	Polyelectrolyte Multilayers on Soft Colloidal Nanosurfaces: A New Life for the Layer-By-Layer Method. <i>Polymers</i> , 2021 , 13,	4.5	16
40	Carbon Soot-Ionic Surfactant Mixed Layers at Water/Air Interfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 3618-25	1.3	13
39	Essential Oils and Their Individual Components in Cosmetic Products. <i>Cosmetics</i> , 2021 , 8, 114	2.7	13
38	3D solid supported inter-polyelectrolyte complexes obtained by the alternate deposition of poly(diallyldimethylammonium chloride) and poly(sodium 4-styrenesulfonate). <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 197-208	3	13
37	Impact of the bulk aggregation on the adsorption of oppositely charged polyelectrolyte-surfactant mixtures onto solid surfaces. <i>Advances in Colloid and Interface Science</i> , 2020 , 282, 102203	14.3	12
36	Environmentally friendly platforms for encapsulation of an essential oil: Fabrication, characterization and application in pests control. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 555, 473-481	5.1	12
35	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. <i>Colloids and Interfaces</i> , 2020 , 4, 33	3	12
34	Oil-In-Water Microemulsions for Thymol Solubilization. <i>Colloids and Interfaces</i> , 2019 , 3, 64	3	12
33	Preparation and Application in Drug Storage and Delivery of Agarose Nanoparticles. <i>International Journal of Polymer Science</i> , 2018 , 2018, 1-9	2.4	12
32	Self-Consistent Mean Field Calculations of Polyelectrolyte-Surfactant Mixtures in Solution and upon Adsorption onto Negatively Charged Surfaces. <i>Polymers</i> , 2020 , 12,	4.5	10
31	Colloids at Fluid Interfaces. <i>Processes</i> , 2019 , 7, 942	2.9	10
30	On the autonomous motion of active drops or bubbles. <i>Journal of Colloid and Interface Science</i> , 2018 , 527, 180-186	9.3	10
29	Surfactantless Emulsions Containing Eugenol for Imidacloprid Solubilization: Physicochemical Characterization and Toxicity against Insecticide-Resistant. <i>Molecules</i> , 2020 , 25,	4.8	9
28	Interaction of Particles with Langmuir Monolayers of 1,2-Dipalmitoyl-Sn-Glycero-3-Phosphocholine: A Matter of Chemistry?. <i>Coatings</i> , 2020 , 10, 469	2.9	9
27	Physicochemical Aspects of the Performance of Hair-Conditioning Formulations. <i>Cosmetics</i> , 2020 , 7, 26	2.7	9
26	Behavior of the water/vapor interface of chitosan solutions with an anionic surfactant: effect of polymer-surfactant interactions. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 23360-23373	3.6	9

25	Development of an Environmentally Friendly Larvicidal Formulation Based on Essential Oil Compound Blend to Control <i>Aedes aegypti</i> Larvae: Correlations between Physicochemical Properties and Insecticidal Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 ,	8.3	8
24	Influence of Carbon Nanosheets on the Behavior of 1,2-Dipalmitoyl-sn-glycerol-3-phosphocholine Langmuir Monolayers. <i>Processes</i> , 2020 , 8, 94	2.9	8
23	Enhanced solubilization of an insect juvenile hormone (JH) mimetic (piriproxyfen) using eugenol in water nanoemulsions stabilized by a triblock copolymer of poly(ethyleneglycol) and poly(propyleneglycol). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020 , 606, 125513	5.1	8
22	Physico-chemical study of polymer mixtures formed by a polycation and a zwitterionic copolymer in aqueous solution and upon adsorption onto negatively charged surfaces. <i>Polymer</i> , 2021 , 217, 123442	3.9	8
21	Adsorption of Mixtures of a Pegylated Lipid with Anionic and Zwitterionic Surfactants at Solid/Liquid. <i>Colloids and Interfaces</i> , 2020 , 4, 47	3	7
20	Comment on "Formation of polyelectrolyte multilayers: ionic strengths and growth regimes" by K. Tang and A. M. Besseling, <i>Soft Matter</i> , 2016, 12, 1032. <i>Soft Matter</i> , 2016 , 12, 8460-8463	3.6	7
19	Particle-laden fluid/fluid interfaces: physico-chemical foundations. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	5
18	Fabrication of Robust Capsules by Sequential Assembly of Polyelectrolytes onto Charged Liposomes. <i>Langmuir</i> , 2021 , 37, 6189-6200	4	4
17	Evaporation of Sessile Droplets of Polyelectrolyte/Surfactant Mixtures on Silicon Wafers. <i>Colloids and Interfaces</i> , 2021 , 5, 12	3	4
16	Polyelectrolyte Multilayered Capsules as Biomedical Tools.. <i>Polymers</i> , 2022 , 14,	4.5	3
15	Monolayers of Cholesterol and Cholesteryl Stearate at the Water/Vapor Interface: A Physico-Chemical Study of Components of the Meibum Layer. <i>Colloids and Interfaces</i> , 2021 , 5, 30	3	3
14	Pattern Formation upon Evaporation of Sessile Droplets of Polyelectrolyte/Surfactant Mixtures on Silicon Wafers. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
13	Oil in Water Nanoemulsions Loaded with Tebuconazole for Populus Wood Protection against White- and Brown-Rot Fungi. <i>Forests</i> , 2021 , 12, 1234	2.8	3
12	A broad perspective to particle-laden fluid interfaces systems: from chemically homogeneous particles to active colloids.. <i>Advances in Colloid and Interface Science</i> , 2022 , 302, 102620	14.3	3
11	Evaluating the Impact of Hydrophobic Silicon Dioxide in the Interfacial Properties of Lung Surfactant Films.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	2
10	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> , 2022 , 634, 127974 ^{5.1}	5.1	2
9	Nanoemulsions for the Encapsulation of Hydrophobic Actives. <i>Cosmetics</i> , 2021 , 8, 45	2.7	2
8	Study of the Dilution-Induced Deposition of Concentrated Mixtures of Polyelectrolytes and Surfactants.. <i>Polymers</i> , 2022 , 14,	4.5	1

7	Layer-by-Layer Materials for the Fabrication of Devices with Electrochemical Applications. <i>Energies</i> , 2022 , 15, 3399	3.1	1
6	Performance of Oleic Acid and Soybean Oil in the Preparation of Oil-in-Water Microemulsions for Encapsulating a Highly Hydrophobic Molecule. <i>Colloids and Interfaces</i> , 2021 , 5, 50	3	0
5	Interaction of Polyelectrolytes and Surfactants on Hair Surfaces. Deposits and their Characterization 2021 , 401-449		0
4	Fluid Films as Models for Understanding the Impact of Inhaled Particles in Lung Surfactant Layers. <i>Coatings</i> , 2022 , 12, 277	2.9	0
3	Effects of Oil Phase on the Inversion of Pickering Emulsions Stabilized by Palmitic Acid Decorated Silica Nanoparticles. <i>Colloids and Interfaces</i> , 2022 , 6, 27	3	0
2	Drops and Bubbles as Controlled Traveling Reactors and/or Carriers Including Microfluidics Aspects. <i>Springer Proceedings in Physics</i> , 2019 , 255-276	0.2	
1	Electrostatic Layer-by-Layer Self-Assembly Method: A Physico-Chemical Perspective 2022 , 169-202		