Stefano Guido

List of Publications by Year
in descending order

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136	5,778	76196	88477
papers	citations	40	70
		h-index	g-index

142	142	142	5955
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wetting properties of dehydrated biofilms under different growth conditions. Colloids and Surfaces B: Biointerfaces, 2022, 210, 112245.	2.5	4
2	Diffusionâ€induced anisotropic cancer invasion: A novel experimental method based on tumor spheroids. AICHE Journal, 2022, 68, .	1.8	4
3	5-Azacytidine Downregulates the Proliferation and Migration of Hepatocellular Carcinoma Cells In Vitro and In Vivo by Targeting miR-139-5p/ROCK2 Pathway. Cancers, 2022, 14, 1630.	1.7	8
4	The microstructure of Carbopol in water under static and flow conditions and its effect on the yield stress. Journal of Colloid and Interface Science, 2021, 582, 1067-1074.	5.0	14
5	Effect of tail branching on the phase behavior and the rheological properties of amine oxide/ethoxysulfate surfactant mixtures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 613, 126091.	2.3	6
6	Quantitative methods to detect phospholipids at the oil-water interface. Advances in Colloid and Interface Science, 2021, 290, 102392.	7.0	7
7	Membrane Fouling Phenomena in Microfluidic Systems: From Technical Challenges to Scientific Opportunities. Micromachines, 2021, 12, 820.	1.4	19
8	Organic electrochemical transistors as novel biosensing platforms to study the electrical response of whole blood and plasma. Journal of Materials Chemistry B, 2021, 10, 87-95.	2.9	6
9	Dissolution of a surfactant-water lamellar phase investigated by combining time-lapse polarized light microscopy and confocal Raman spectroscopy. Journal of Colloid and Interface Science, 2020, 561, 136-146.	5.0	9
10	Annurca apple polyphenol extract promotes mesenchymal-to-epithelial transition and inhibits migration in triple-negative breast cancer cells through ROS/JNK signaling. Scientific Reports, 2020, 10, 15921.	1.6	23
11	Antibiofilm Properties of Temporin-L on Pseudomonas fluorescens in Static and In-Flow Conditions. International Journal of Molecular Sciences, 2020, 21, 8526.	1.8	22
12	The role of flow in bacterial biofilm morphology and wetting properties. Colloids and Surfaces B: Biointerfaces, 2020, 192, 111047.	2.5	18
13	Tuning crystal structure in a micro-scale reactive flow. Chemical Engineering Science, 2019, 207, 581-587.	1.9	5
14	Branched alkyldimethylamine oxide surfactants: An effective strategy for the design of high concentration/low viscosity surfactant formulations. Journal of Colloid and Interface Science, 2019, 552, 448-463.	5.0	22
15	Microstructure evolution during nano-emulsification by NMR and microscopy. Journal of Colloid and Interface Science, 2019, 551, 138-146.	5.0	4
16	Confined flow behaviour of droplets in microcapillary flow. European Physical Journal E, 2019, 42, 29.	0.7	2
17	Dissolution of concentrated surfactant solutions: from microscopy imaging to rheological measurements through numerical simulations. Soft Matter, 2019, 15, 8352-8360.	1.2	6
18	A pathogenic role for cystic fibrosis transmembrane conductance regulator in celiac disease. EMBO Journal, 2019, 38, .	3.5	43

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19	Flow-induced concentration gradients in shear-banding of branched wormlike micellar solutions. Journal of Colloid and Interface Science, 2019, 534, 695-703.	5.0	6
20	CFD-DEM simulations of particulate fouling in microchannels. Chemical Engineering Journal, 2019, 358, 91-100.	6.6	31
21	Measuring Interfacial Tension of Emulsions in Situ by Microfluidics. Langmuir, 2018, 34, 4991-4997.	1.6	33
22	Flow-switchable morphology of concentrated emulsions. Chemical Engineering and Processing: Process Intensification, 2018, 125, 275-279.	1.8	5
23	The effect of shear flow on microreactor clogging. Chemical Engineering Journal, 2018, 341, 639-647.	6.6	29
24	The effect of flow on viscoelastic emulsion microstructure. European Physical Journal E, 2018, 41, 45.	0.7	1
25	Emulsions in porous media: From single droplet behavior to applications for oil recovery. Advances in Colloid and Interface Science, 2018, 256, 305-325.	7.0	102
26	Endothelial glycocalyx regulates cytoadherence in Plasmodium falciparum malaria. Journal of the Royal Society Interface, 2018, 15, 20180773.	1.5	18
27	Light Electrospun Polyvinylpyrrolidone Blanket for Low Frequencies Sound Absorption. Chinese Journal of Polymer Science (English Edition), 2018, 36, 1368-1374.	2.0	22
28	Monitoring emulsion microstructure by using organic electrochemical transistors. Journal of Materials Chemistry C, 2017, 5, 2056-2065.	2.7	27
29	A novel approach to quantify the wound closure dynamic. Experimental Cell Research, 2017, 352, 175-183.	1.2	7
30	Engineering approaches in siRNA delivery. International Journal of Pharmaceutics, 2017, 525, 343-358.	2.6	21
31	Swelling-induced structural changes and microparticle uptake of gelatin gels probed by NMR and CLSM. Soft Matter, 2017, 13, 2952-2961.	1.2	12
32	The wound healing assay revisited: A transport phenomena approach. Chemical Engineering Science, 2017, 160, 200-209.	1.9	20
33	Flow-induced gelation of microfiber suspensions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8557-E8564.	3.3	52
34	Flow-induced nanostructuring of gelled emulsions. Soft Matter, 2017, 13, 5696-5703.	1.2	19
35	Development of model systems for in vitro investigation of transdermal transport pathways. Canadian Journal of Chemical Engineering, 2017, 95, 1637-1645.	0.9	4
36	Dynamic behaviour of multilamellar vesicles under Poiseuille flow. Soft Matter, 2017, 13, 6304-6313.	1.2	10

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37	Confined tube flow of low viscosity emulsions: Effect of matrix elasticity. Journal of Rheology, 2016, 60, 419-432.	1.3	8
38	A novel treatment of cystic fibrosis acting on-target: cysteamine plus epigallocatechin gallate for the autophagy-dependent rescue of class II-mutated CFTR. Cell Death and Differentiation, 2016, 23, 1380-1393.	5.0	82
39	Comparison between fibroblast wound healing and cell random migration assays in vitro. Experimental Cell Research, 2016, 347, 123-132.	1.2	34
40	Visualization of choline-based phospholipids at the interface of oil/water emulsions with TEPC-15 antibody. Immunofluorescence applied to colloidal systems. RSC Advances, 2016, 6, 109960-109968.	1.7	5
41	Rheology of blood cells, capsules, and vesicles. Rheologica Acta, 2016, 55, 431-431.	1.1	0
42	Transport efficiency in transdermal drug delivery: What is the role of fluid microstructure?. Colloids and Surfaces B: Biointerfaces, 2016, 139, 294-305.	2.5	32
43	A Continuous Process for Buchwaldâ€“Hartwig Amination at Micro-, Lab-, and Mesoscale Using a Novel Reactor Concept. Organic Process Research and Development, 2016, 20, 558-567.	1.3	48
44	Microfluidic interactions between red blood cells and drug carriers by image analysis techniques. Medical Engineering and Physics, 2016, 38, 17-23.	0.8	20
45	Interfacial tension of oil/water emulsions with mixed non-ionic surfactants: comparison between experiments and molecular simulations. RSC Advances, 2016, 6, 4723-4729.	1.7	95
46	Blood linear viscoelasticity by small amplitude oscillatory flow. Rheologica Acta, 2016, 55, 485-495.	1.1	47
47	Microconfined flow behavior of red blood cells. Medical Engineering and Physics, 2016, 38, 11-16.	0.8	49
48	Phase inversion emulsification: Current understanding and applications. Advances in Colloid and Interface Science, 2015, 222, 581-599.	7.0	183
49	A microfluidic approach for flexible and efficient operation of a cross-coupling reactive flow. RSC Advances, 2015, 5, 63786-63792.	1.7	15
50	Red blood cells affect the margination of microparticles in synthetic microcapillaries and intravital microcirculation as a function of their size and shape. Journal of Controlled Release, 2015, 217, 263-272.	4.8	82
51	Real-time monitoring of self-assembling worm-like micelle formation by organic transistors. RSC Advances, 2015, 5, 16554-16561.	1.7	10
52	Water evaporation from porous media by Dynamic Vapor Sorption. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 159-164.	2.3	8
53	A New Method to Improve the Clinical Evaluation of Cystic Fibrosis Patients by Mucus Viscoelastic Properties. PLoS ONE, 2014, 9, e82297.	1.1	48
54	Red blood cell dynamics in polymer brush-coated microcapillaries: A model of endothelial glycocalyx in vitro. Biomicrofluidics, 2014, 8, 014104.	1.2	32

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55	Phase behavior of the ternary aqueous mixtures of two polydisperse ethoxylated nonionic surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 442, 16-24.	2.3	10
56	Restoration of CFTR function in patients with cystic fibrosis carrying the F508del-CFTR mutation. Autophagy, 2014, 10, 2053-2074.	4.3	135
57	Correction: SUMOylation of Tissue Transglutaminase as Link between Oxidative Stress and Inflammation. Journal of Immunology, 2014, 193, 5347-5349.	0.4	1
58	A methodology to study chemotaxis in 3â€Ð collagen gels. AICHE Journal, 2013, 59, 4025-4035.	1.8	14
59	Dispersion of sepiolite rods in nanofibers by electrospinning. Polymer, 2013, 54, 1295-1297.	1.8	9
60	Palladium-N-heterocyclic carbene (NHC) catalyzed Câ€“N bond formation in a continuous flow microreactor. Effect of process parameters and comparison with batch operation. Chemical Engineering Journal, 2013, 223, 578-583.	6.6	33
61	Dynamic flow behaviour of surfactant vesicles under shear flow: role of a multilamellar microstructure. Soft Matter, 2013, 9, 7545.	1.2	24
62	Using Optical Tweezers for the Characterization of Polyelectrolyte Solutions with Very Low Viscoelasticity. Langmuir, 2013, 29, 9224-9230.	1.6	30
63	Disease-relevant proteostasis regulation of cystic fibrosis transmembrane conductance regulator. Cell Death and Differentiation, 2013, 20, 1101-1115.	5.0	45
64	Cardiomyocyte Differentiation of Embryonic Stem Cells on the Surface of Organic Semiconductors. International Journal of Artificial Organs, 2013, 36, 426-433.	0.7	4
65	Targeting autophagy as a novel strategy for facilitating the therapeutic action of potentiators on Î”F508 cystic fibrosis transmembrane conductance regulator. Autophagy, 2012, 8, 1657-1672.	4.3	88
66	Early tissue transglutaminaseâ€“mediated response underlies K562(S)-cell gliadin-dependent agglutination. Pediatric Research, 2012, 71, 532-538.	1.1	32
67	Shear-Induced Deformation of Surfactant Multilamellar Vesicles. Physical Review Letters, 2012, 108, 138301.	2.9	28
68	Comparison of two flowâ€based imaging methods to measure individual red blood cell area and volume. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 1040-1047.	1.1	27
69	Red blood cell clustering in Poiseuille microcapillary flow. Physics of Fluids, 2012, 24, .	1.6	52
70	Flow Reduction in Microchannels Coated with a Polymer Brush. Langmuir, 2012, 28, 13758-13764.	1.6	23
71	Vorticity Banding in Biphasic Polymer Blends. Langmuir, 2012, 28, 16254-16262.	1.6	27
72	Apple polyphenols extract (APE) improves colon damage in a rat model of colitis. Digestive and Liver Disease, 2012, 44, 555-562.	0.4	53

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73	A Novel Chemotaxis Assay in 3-D Collagen Gels by Time-Lapse Microscopy. PLoS ONE, 2012, 7, e52251.	1.1	24
74	PED/PEAâ€15 controls fibroblast motility and wound closure by ERK1/2â€dependent mechanisms. Journal of Cellular Physiology, 2012, 227, 2106-2116.	2.0	24
75	Migration of a sphere in a viscoelastic fluid under planar shear flow: Experiments and numerical predictions. Soft Matter, 2011, 7, 1100-1106.	1.2	29
76	Microfluidics analysis of red blood cell membrane viscoelasticity. Lab on A Chip, 2011, 11, 449-454.	3.1	114
77	Start-up shape dynamics of red blood cells in microcapillary flow. Microvascular Research, 2011, 82, 35-41.	1.1	68
78	Shear-induced droplet deformation: Effects of confined geometry and viscoelasticity. Current Opinion in Colloid and Interface Science, 2011, 16, 61-70.	3.4	74
79	Droplet deformation under confined Poiseuille flow. Advances in Colloid and Interface Science, 2010, 161, 89-101.	7.0	69
80	Defective CFTR induces aggresome formation and lung inflammation in cystic fibrosis through ROS-mediated autophagy inhibition. Nature Cell Biology, 2010, 12, 863-875.	4.6	420
81	Microconfined Shear Deformation of a Droplet in an Equiviscous Non-Newtonian Immiscible Fluid: Experiments and Modeling. Langmuir, 2010, 26, 126-132.	1.6	35
82	Diffusive Mixing of Polymers Investigated by Raman Microspectroscopy and Microrheology. Langmuir, 2010, 26, 14223-14230.	1.6	23
83	Lysosomal accumulation of gliadin p31-43 peptide induces oxidative stress and tissue transglutaminase-mediated PPARÂ downregulation in intestinal epithelial cells and coeliac mucosa. Gut, 2010, 59, 311-319.	6.1	125
84	Analysis of Red Blood Cell Deformation in a Microfluidic Device. , 2010, , .		0
85	Microconfined flow behavior of red blood cells in vitro. Comptes Rendus Physique, 2009, 10, 751-763.	0.3	73
86	SUMOylation of Tissue Transglutaminase as Link between Oxidative Stress and Inflammation. Journal of Immunology, 2009, 183, 2775-2784.	0.4	80
87	Red blood cell deformation in microconfined flow. Soft Matter, 2009, 5, 3736.	1.2	121
88	Evolution under shear flow of drop size distribution in bipolymer mixtures. Special Publication - Royal Society of Chemistry, 2009, , 280-287.	0.0	0
89	High-Throughput Screening-Compatible Single-Step Protocol to Differentiate Embryonic Stem Cells in Neurons. Stem Cells and Development, 2008, 17, 573-584.	1.1	50
90	Diffusion in Polymer Blends by Raman Microscopy. Macromolecules, 2008, 41, 5512-5514.	2.2	31

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91	Tissue Transglutaminase Activation Modulates Inflammation in Cystic Fibrosis via PPARÎ³ Down-Regulation. Journal of Immunology, 2008, 180, 7697-7705.	0.4	112
92	Shear Banding in Biphasic Liquid-Liquid Systems. Physical Review Letters, 2008, 100, 137801.	2.9	37
93	An Electric Criterion to Evaluate Glass Transition Temperature: Dielectric Relaxation Measurements. Macromolecular Symposia, 2007, 247, 43-49.	0.4	4
94	Drop deformation in sheared polymer blends. Journal of Rheology, 2007, 51, 761-774.	1.3	33
95	A methodology to study the deformability of red blood cells flowing in microcapillaries in vitro. Annali Dell'Istituto Superiore Di Sanita, 2007, 43, 186-92.	0.2	12
96	Drop Deformation in Microconfined Shear Flow. Physical Review Letters, 2006, 97, 054502.	2.9	154
97	Start-up and retraction dynamics of a Newtonian drop in a viscoelastic matrix under simple shear flow. Journal of Non-Newtonian Fluid Mechanics, 2006, 134, 27-32.	1.0	25
98	A parameter investigation of shear-induced coalescence in semidilute PIBâ€“PDMS polymer blends: effects of shear rate, shear stress volume fraction, and viscosity. Rheologica Acta, 2006, 45, 505-512.	1.1	27
99	Single Drop Dynamics under Shearing Flow in Systems with a Viscoelastic Phase. Macromolecular Symposia, 2005, 228, 31-40.	0.4	8
100	Analysis of start-up dynamics of a single drop through an ellipsoidal drop model for non-Newtonian fluids. Journal of Non-Newtonian Fluid Mechanics, 2005, 126, 145-151.	1.0	15
101	Effect of solâ€“gel transition on shear-induced drop deformation in aqueous mixtures of gellan and Î²-carrageenan. Journal of Colloid and Interface Science, 2005, 281, 488-494.	5.0	11
102	Shear-induced coalescence in aqueous biopolymer mixtures. Chemical Engineering Science, 2005, 60, 1019-1027.	1.9	33
103	Phase diagram, rheology and interfacial tension of aqueous mixtures of Na-caseinate and Na-alginate. Food Hydrocolloids, 2004, 18, 463-470.	5.6	63
104	Evolution of drop size distribution of polymer blends under shear flow by optical sectioning. Rheologica Acta, 2004, 43, 491-501.	1.1	33
105	Break-up of a Newtonian drop in a viscoelastic matrix under simple shear flow. Rheologica Acta, 2004, 43, 449-456.	1.1	46
106	Newtonian drop in a Newtonian matrix subjected to large amplitude oscillatory shear flows. Rheologica Acta, 2004, 43, 575-583.	1.1	27
107	Drop deformation under small-amplitude oscillatory shear flow. Rheologica Acta, 2003, 42, 1-9.	1.1	26
108	Effects of matrix viscoelasticity on drop deformation in dilute polymer blends under slow shear flow. Polymer, 2003, 44, 467-471.	1.8	36

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109	Deformation of a Newtonian drop in a viscoelastic matrix under steady shear flow. Journal of Non-Newtonian Fluid Mechanics, 2003, 114, 65-82.	1.0	63
110	Drop breakup and fragment size distribution in shear flow. Journal of Rheology, 2003, 47, 1283-1298.	1.3	121
111	A Numerical and Experimental Investigation of Lamellar Blend Morphologies. Industrial & Engineering Chemistry Research, 2002, 41, 6305-6311.	1.8	33
112	Shear-induced clustering of gelling droplets in aqueous biphasic mixtures of gelatin and dextran. Journal of Rheology, 2002, 46, 1263-1278.	1.3	14
113	Measurement of average drop size in aqueous mixtures of Na-alginate and Na-caseinate by linear oscillatory tests. Food Hydrocolloids, 2002, 16, 449-459.	5.6	17
114	Interfacial tension of aqueous mixtures of Na-caseinate and Na-alginate by drop deformation in shear flow. Carbohydrate Polymers, 2002, 48, 143-152.	5.1	36
115	Flow-Induced Deformation of Drops. Mathematics in Industry, 2002, , 415-419.	0.1	1
116	Drop shape under slow steady shear flow and during relaxation. Experimental results and comparison with theory. Rheologica Acta, 2001, 40, 176-184.	1.1	47
117	Drop shape dynamics under shear-flow reversal. Journal of Rheology, 2000, 44, 1385-1399.	1.3	53
118	Diffusion effects on the interfacial tension of immiscible polymer blends. Rheologica Acta, 1999, 38, 287-296.	1.1	40
119	Measurement of Interfacial Tension by Drop Retraction Analysis. Journal of Colloid and Interface Science, 1999, 209, 247-250.	5.0	75
120	Experimental Determination of Drop Shape in Slow Steady Shear Flow. Journal of Colloid and Interface Science, 1999, 219, 298-309.	5.0	30
121	Three-dimensional shape of a drop under simple shear flow. Journal of Rheology, 1998, 42, 395-415.	1.3	179
122	Binary collision of drops in simple shear flow by computer-assisted video optical microscopy. Journal of Fluid Mechanics, 1998, 357, 1-20.	1.4	160
123	3D Deformation of a Drop in Simple Shear Flow by Video Microscopy. , 1998, , 477-478.		0
124	The Deformation of an Ellipsoidal Drop under Viscous Flow Conditions. , 1998, , 84-85.		0
125	Comparative measurements of interfacial tension in a model polymer blend. Polymer Engineering and Science, 1997, 37, 1540-1549.	1.5	78
126	Phase separation effects in the rheology of aqueous solutions of hydroxypropylcellulose. Rheologica Acta, 1995, 34, 137-146.	1.1	41

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127	Cholesteric Textures of Aqueous Hydroxypropylcellulose Solutions. Molecular Crystals and Liquid Crystals, 1995, 266, 111-119.	0.3	4
128	Shear Flow Rheology of Liquid Crystalline Polymers. International Journal of Polymer Analysis and Characterization, 1995, 1, 191-199.	0.9	9
129	Phase behavior of aqueous solutions of hydroxypropyl cellulose. Macromolecules, 1995, 28, 4530-4539.	2.2	85
130	Rheo-optics of hydroxypropylcellulose solutions in Poiseuille flow. Rheologica Acta, 1994, 33, 22-28.	1.1	23
131	Biased cell migration of fibroblasts exhibiting contact guidance in oriented collagen gels. Annals of Biomedical Engineering, 1994, 22, 342-356.	1.3	194
132	A methodology for the systematic and quantitative study of cell contact guidance in oriented collagen gels Correlation of fibroblast orientation and gel birefringence. Journal of Cell Science, 1993, 105, 317-331.	1.2	228
133	A methodology for the systematic and quantitative study of cell contact guidance in oriented collagen gels. Correlation of fibroblast orientation and gel birefringence. Journal of Cell Science, 1993, 105 (Pt 2), 317-31.	1.2	66
134	Flow Visualization of Liquid Crystalline Polymer Solutions in Rectangular Channels. , 1992, , 67-71.		0
135	Velocity profiles in rectangular channel flow of liquid crystalline polymer solutions. Rheologica Acta, 1991, 30, 71-76.	1.1	15
136	S-shaped deformation profiles in sheared liquid-crystalline polymers. Liquid Crystals, 1990, 7, 279-282.	0.9	14