Peter j Scales

List of Publications by Citations

188 papers	6,273 citations	41 h-index	70 g-index
193 ext. papers	6,792 ext. citations	5.5 avg, IF	5.73 L-index

#	Paper	IF	Citations
188	Electrokinetics of the silica-solution interface: a flat plate streaming potential study. *Langmuir*, **1992**, 8, 965-974	4	264
187	Surface chemistryRheology relationships in concentrated mineral suspensions. *International Journal of Mineral Processing*, **2000**, 58, 267-304		252
186	Electrokinetic and Direct Force Measurements between Silica and Mica Surfaces in Dilute Electrolyte Solutions. *Langmuir*, **1997**, 13, 2207-2214	4	241
185	Chemical and physical control of the rheology of concentrated metal oxide suspensions. *Chemical Engineering Science*, **2001**, 56, 2901-2920	4.4	207
184	Rheological evidence of adsorbate-mediated short-range steric forces in concentrated dispersions. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 2473		167
183	Electrokinetics of the muscovite mica-aqueous solution interface. *Langmuir*, **1990**, 6, 582-589	4	164
182	Shear yield stress of partially flocculated colloidal suspensions. *AICHE Journal*, **1998**, 44, 538-544	3.6	161
181	The yield stress of concentrated flocculated suspensions of size distributed particles. *Journal of Rheology*, **1999**, 43, 651-671	4.1	137
180	Quantification of wastewater sludge dewatering. *Water Research*, **2015**, 82, 2-13	12.5	98
179	Rapid filtration measurement of dewatering design and optimization parameters. *AICHE Journal*, **2001**, 47, 1758-1769	3.6	97
178	Interparticle forces arising from adsorbed polyelectrolytes in colloidal suspensions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1995**, 95, 43-52	5.1	97
177	Quantitative evaluation of the ease of rupture of industrially promising microalgae by high pressure homogenization. *Bioresource Technology*, **2013**, 140, 165-71	11	93
176	The Binding of Monovalent Electrolyte Ions on Alumina. I. Electroacoustic Studies at High Electrolyte Concentrations. *Langmuir*, **1999**, 15, 2836-2843	4	93
175	Effect of Particle Size on Colloidal Zirconia Rheology at the Isoelectric Point. *Journal of the American Ceramic Society*, **1995**, 78, 2209-2212	3.8	92
174	Volume fraction effects in shear rheology and electroacoustic studies of concentrated alumina and kaolin suspensions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1998**, 141, 119-130	5.1	91
173	Lipid profile remodeling in response to nitrogen deprivation in the microalgae Chlorella sp. (Trebouxiophyceae) and Nannochloropsis sp. (Eustigmatophyceae). *PLoS ONE*, **2014**, 9, e103389	3.7	91
172	Ion-Specific Strength of Attractive Particle Networks. *Langmuir*, **1999**, 15, 4411-4420	4	90

171	Energy evaluation of algal cell disruption by high pressure homogenisation. *Bioresource Technology*, **2015**, 184, 280-285	11	88
170	A quantitative analysis of microalgal lipids for optimization of biodiesel and omega-3 production. *Biotechnology and Bioengineering*, **2013**, 110, 2096-104	4.9	84
169	Validation of a new filtration technique for dewaterability characterization. *AICHE Journal*, **2001**, 47, 1561-1570	3.6	83
168	Yield stress of suspensions loaded with size distributed particles. *AICHE Journal*, **1997**, 43, 1171-1179	3.6	81
167	The use of QEMSCAN and diagnostic leaching in the characterisation of visible gold in complex ores. *Minerals Engineering*, **2005**, 18, 877-886	4.9	78
166	Estimation of the hindered settling function R(?) from batch-settling tests. *AICHE Journal*, **2005**, 51, 1158-1168	3.6	72
165	PAA/PEO comb polymer effects on rheological properties and inter-particle forces in aqueous silica suspensions. *Journal of Colloid and Interface Science*, **2003**, 262, 274-81	9.3	69
164	Comparison of Techniques for Measuring the Electrical Double Layer Properties of Surfaces in Aqueous Solution: Hexadecyltrimethylammonium Bromide Self-Assembly Structures as a Model System. *Langmuir*, **1995**, 11, 2367-2375	4	69
163	A mechanistic study of algal cell disruption and its effect on lipid recovery by solvent extraction. *Algal Research*, **2014**, 5, 112-120	5	68
162	Nitrogen deprivation of microalgae: effect on cell size, cell wall thickness, cell strength, and resistance to mechanical disruption. *Journal of Industrial Microbiology and Biotechnology*, **2016**, 43, 1671-1680	4.2	65
161	Low solvent, low temperature method for extracting biodiesel lipids from concentrated microalgal biomass. *Bioresource Technology*, **2013**, 148, 615-9	11	64
160	Effects of citrate adsorption on the interactions between zirconia surfaces. *Journal of the Chemical Society, Faraday Transactions*, **1995**, 91, 2921		64
159	Steady state thickener modelling from the compressive yield stress and hindered settling function. *Chemical Engineering Journal*, **2005**, 111, 253-261	14.7	63
158	Adsorption of organic matter at mineral/water interfaces. 6. Effect of inner-sphere versus outer-sphere adsorption on colloidal stability. *Langmuir*, **2005**, 21, 6356-65	4	61
157	Compartmentalization of extracellular polymeric substances (EPS) solubilization and cake microstructure in relation to wastewater sludge dewatering behavior assisted by horizontal electric field: Effect of operating conditions. *Water Research*, **2018**, 130, 363-375	12.5	57
156	Improving clay-based tailings disposal: Case study on coal tailings. *AICHE Journal*, **1997**, 43, 1894-1903	3.6	56
155	The Binding of Monovalent Electrolyte Ions on □-Alumina. II. The Shear Yield Stress of Concentrated Suspensions. *Langmuir*, **1999**, 15, 2844-2853	4	52
154	Molecular-Scale Structure of the Cation Modified Muscovite Mica Basal Plane. *Langmuir*, **1994**, 10, 4554-4559	4	52

153	An overview of the advantages and disadvantages of the determination of gold mineralogy by automated mineralogy. *Minerals Engineering*, **2007**, 20, 506-517	4.9	50
152	Mobility of protein through a porous membrane. *Journal of Membrane Science*, **1996**, 119, 47-58	9.6	48
151	Surface chemistry-rheology inter-relationships in clay suspensions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1998**, 137, 307-318	5.1	47
150	Wastewater treatment using filamentous algae - A review. *Bioresource Technology*, **2020**, 298, 122556	11	46
149	Theoretical analysis of aggregate densification: Impact on thickener performance. *Chemical Engineering Journal*, **2009**, 151, 202-208	14.7	45
148	The electrokinetic and shear yield stress properties of kaolinite in the presence of aluminium ions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1999**, 146, 281-291	5.1	44
147	Pathogen reduction requirements for direct potable reuse in Antarctica: evaluating human health risks in small communities. *Science of the Total Environment*, **2013**, 461-462, 723-33	10.2	41
146	Aggregate densification and batch settling. *Chemical Engineering Journal*, **2011**, 171, 141-151	14.7	41
145	Interparticle Forces Arising from Adsorbed Surfactants in Colloidal Suspensions: An Additional Attractive Force. *Journal of Colloid and Interface Science*, **1996**, 181, 605-612	9.3	41
144	Effects of solvency and interfacial nanobubbles on surface forces and bubble attachment at solid surfaces. *Langmuir*, **2011**, 27, 2484-91	4	40
143	Fundamental dewatering properties of wastewater treatment sludges from filtration and sedimentation testing. *Chemical Engineering Science*, **2008**, 63, 5283-5290	4.4	40
142	Cationic Modification of Muscovite Mica: An Electrokinetic Study. *Langmuir*, **1995**, 11, 291-295	4	40
141	Control of the rheology of concentrated aqueous colloidal systems by steric and hydrophobic forces. *Journal of the Chemical Society Chemical Communications*, **1993**, 639		39
140	Critical analysis of quantitative indicators of cell disruption applied to Saccharomyces cerevisiae processed with an industrial high pressure homogenizer. *Biochemical Engineering Journal*, **2013**, 70, 120-126	4.2	38
139	Effect of Shear on Particulate Suspension Dewatering. *Chemical Engineering Research and Design*, **2005**, 83, 933-936	5.5	38
138	3D-printing of dynamic self-healing cryogels with tuneable properties. *Polymer Chemistry*, **2018**, 9, 1684-1692	4.9	37
137	Influence of pre-treatment combinations on RO membrane fouling. *Desalination*, **2016**, 393, 120-126	10.3	37
136	The bucket rheometer for shear stress-shear rate measurement of industrial suspensions. *Journal of Rheology*, **2007**, 51, 821-831	4.1	36

135	Electrostatic Properties of Polyelectrolyte Modified Surfaces Studied by Direct Force Measurement. *Langmuir*, **1998**, 14, 6948-6955	4	35
134	X-ray Diffraction and Rheology Study of Highly Ordered Clay Platelet Alignment in Aqueous Solutions of Sodium Tripolyphosphate. *Langmuir*, **1997**, 13, 2440-2446	4	34
133	Investigation of adsorbed humic substances using atomic force microscopy. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2004**, 248, 17-23	5.1	34
132	Effect of Adsorbed Surfactants on the Rheology of Colloidal Zirconia Suspensions. *Langmuir*, **1999**, 15, 20-26	4	34
131	A centrifugation method for the assessment of low pressure compressibility of particulate suspensions. *Chemical Engineering Journal*, **2009**, 148, 405-413	14.7	33
130	Contact angle changes for hydrophobic and hydrophilic surfaces induced by nonionic surfactants. *Colloids and Surfaces*, **1986**, 21, 55-68		33
129	Characterisation of dewaterability from equilibrium and transient centrifugation test data. *Chemical Engineering Science*, **2013**, 93, 277-291	4.4	32
128	The streaming current detector: A comparison with conventional electrokinetic techniques. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1994**, 88, 129-139	5.1	32
127	An Electrokinetic Study of the Adsorption of Dodecyl Ammonium Amine Surfactants at the Muscovite Mica□Water Interface. *Langmuir*, **2000**, 16, 690-694	4	30
126	Interaction forces between □alumina fibres in aqueous electrolyte measured with an atomic force microscope. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1999**, 146, 123-137	5.1	30
125	The influence of ionic strength and osmotic pressure on the dewatering behaviour of sewage sludge. *Chemical Engineering Science*, **2009**, 64, 2448-2454	4.4	29
124	The influence of protruding filamentous bacteria on floc stability and solid-liquid separation in the activated sludge process. *Water Research*, **2017**, 123, 578-585	12.5	28
123	Adhesive forces between adsorbed anionic polyelectrolyte layers in high ionic strength solutions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2004**, 247, 19-25	5.1	28
122	Nontraditional constant pressure filtration behavior. *AICHE Journal*, **2005**, 51, 2481-2488	3.6	28
121	Role of dispersants in kinetics and energetics of stirred ball mill grinding. *International Journal of Mineral Processing*, **1996**, 47, 141-152		28
120	Frequency dependence of electroacoustic (electrophoretic) mobilities. *Langmuir*, **1991**, 7, 1993-1997	4	28
119	Effect of coagulation conditions on the dewatering properties of sludges produced in drinking water treatment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 348, 14-23	5.1	27
118	Numerical modelling of fixed-cavity plate-and-frame filtration: Formulation, validation and optimisation. *Chemical Engineering Science*, **2006**, 61, 3818-3829	4.4	26

117	AFM studies of amine surfactant hemimicelle structures at the mica-water interface. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1995**, 103, 289-298	5.1	26
116	Passive Sampling of SARS-CoV-2 for Wastewater Surveillance. *Environmental Science & Technology*, **2021**, 55, 10432-10441	10.3	26
115	Impact of seawater salts on the viscoelastic behavior of flocculated mineral suspensions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 461, 295-302	5.1	25
114	The effect of shear on gravity thickening: Pilot scale modelling. *Chemical Engineering Science*, **2010**, 65, 4293-4301	4.4	25
113	Modeling of solid-bowl batch centrifugation of flocculated suspensions. *AICHE Journal*, **2006**, 52, 1351-1362	3.6	25
112	Rheological manipulation of flocculated algal slurries to achieve high solids processing. *Algal Research*, **2016**, 14, 1-8	5	24
111	Scale-up procedures and test methods in filtration: a test case on kaolin plant data. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1995**, 103, 1-10	5.1	24
110	Computational models of populations of bacteria and lytic phage. *Critical Reviews in Microbiology*, **2016**, 42, 942-68	7.8	23
109	The effect of pH on the release of metabolites by cyanobacteria in conventional water treatment processes. *Harmful Algae*, **2014**, 39, 253-258	5.3	23
108	Solvent Quality Dependent Interactions and Phase Behavior of Polystyrene Particles with Physisorbed PEO□PPO□PEO. *Langmuir*, **2002**, 18, 1474-1484	4	23
107	A simplified parameter extraction technique using batch settling data to estimate suspension material properties in dewatering applications. *Chemical Engineering Science*, **2008**, 63, 1971-1986	4.4	22
106	Sol□Gel Transitions in Aqueous Suspensions of Synthetic Takovites. The Role of Hydration Properties and Anisotropy. *Langmuir*, **2001**, 17, 2100-2105	4	22
105	High-Frequency Dielectric Response of Highly Charged Sulfonate Latices. *Langmuir*, **1995**, 11, 1553-1558	4	22
104	Emulsifying properties of ruptured microalgae cells: Barriers to lipid extraction or promising biosurfactants?. *Colloids and Surfaces B: Biointerfaces*, **2018**, 170, 438-446	6	22
103	The effect of premature wall yield on creep testing of strongly flocculated suspensions. *Rheologica Acta*, **2015**, 54, 337-352	2.3	21
102	The effects of acidic and thermal pretreatment on the mechanical rupture of two industrially relevant microalgae: Chlorella sp. and Navicula sp.. *Algal Research*, **2015**, 7, 5-10	5	21
101	Effect of Australian zeolite on methane production and ammonium removal during anaerobic digestion of swine manure. *Journal of Environmental Chemical Engineering*, **2018**, 6, 1233-1241	6.8	21
100	Effect of temperature on the dewaterability of hematite suspensions. *International Journal of Mineral Processing*, **2004**, 73, 269-279		21

99	Electrical double layer properties of hexadecyltrimethylammonium chloride surfaces in aqueous solution. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1995**, 103, 195-206	5.1	21
98	Centrifugal recovery of solvent after biphasic wet extraction of lipids from a concentrated slurry of Nannochloropsis sp. biomass. *Algal Research*, **2017**, 24, 299-308	5	20
97	The effect of nitrogen depletion on the cell size, shape, density and gravitational settling of Nannochloropsis salina, Chlorella sp. (marine) and Haematococcus pluvialis. *Algal Research*, **2019**, 39, 101454	5	20
96	Aggregate densification in the thickening of flocculated suspensions in an un-networked bed. *Chemical Engineering Science*, **2015**, 122, 585-595	4.4	20
95	The Adsorption of Dodecyltrimethylammonium Bromide on Mica in Aqueous Solution Studied by X-Ray Diffraction and Atomic Force Microscopy. *Journal of Colloid and Interface Science*, **2001**, 235, 350-357	9.3	20
94	Conversion and recovery of saponifiable lipids from microalgae using a nonpolar solvent via lipase-assisted extraction. *Bioresource Technology*, **2018**, 260, 338-347	11	19
93	Closed-form solutions for batch settling height from model settling flux functions. *Chemical Engineering Science*, **2011**, 66, 964-972	4.4	19
92	Modeling of the Consolidation Stage in Pressure Filtration of Compressible Cakes. *Journal of Colloid and Interface Science*, **2002**, 256, 216-222	9.3	18
91	Dewatering behaviour of water treatment sludges associated with contaminated site remediation in Antarctica. *Chemical Engineering Science*, **2005**, 60, 6835-6843	4.4	18
90	Ostwald ripening of comb polymer stabilised Ag salt nanoparticles. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 459, 58-64	5.1	17
89	Viscoelasticity of coagulated alumina suspensions **2012**, 24, 105-111		17
88	Assessing dewatering performance of drinking water treatment sludges. *Water Research*, **2010**, 44, 1542-52	11.5	17
87	Experimental validation of a 1-D continuous thickening model using a pilot column. *Chemical Engineering Science*, **2010**, 65, 3937-3946	4.4	17
86	The effect of temperature on the yield stress of mineral suspensions. *Journal of Colloid and Interface Science*, **2008**, 328, 187-193	9.3	17
85	A new method for determination of preg-robbing in gold ores. *Minerals Engineering*, **2005**, 18, 1135-1141	4.9	17
84	An Electrophoretic Investigation of the Relaxation Term in Electrokinetic Theory. *Langmuir*, **1995**, 11, 1112-1115	4	17
83	The zeta potential of muscovite mica: Counterion complexation by a macrocyclic ligand. *Journal of Colloid and Interface Science*, **1988**, 124, 391-395	9.3	17
82	Macroscopic dynamics of flocculated colloidal suspensions. *Chemical Engineering Science*, **2010**, 65, 6362-6378	4.4	16

81	Electrically enhanced dewatering (EED) of particulate suspensions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2006**, 290, 194-205	5.1	16
80	The role of natural organic matter in suspension stability: 1. Electrokinetic–rheology relationships. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 295, 38-48	5.1	15
79	Viscoelastic behaviour of flocculated silica sediments in concentrated monovalent chloride salt solutions. *Minerals Engineering*, **2017**, 110, 131-138	4.9	14
78	A non-linear viscoelastic model for sediments flocculated in the presence of seawater salts. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 482, 500-506	5.1	14
77	Wall adhesion and constitutive modeling of strong colloidal gels. *Journal of Rheology*, **2014**, 58, 1247-1276	4.1	14
76	Pseudo two-dimensional modeling of sediment build-up in centrifuges: A compartment approach using compressional rheology. *AICHE Journal*, **2013**, 59, 3843-3855	3.6	14
75	Numerical modeling of flexible-membrane plate-and-frame filtration. *AICHE Journal*, **2008**, 54, 464-474	3.6	14
74	Prediction of transient bed height in batch sedimentation at large times. *AICHE Journal*, **2006**, 52, 986-993	3.6	14
73	Wastewater recycling in Antarctica: Performance assessment of an advanced water treatment plant in removing trace organic chemicals. *Journal of Environmental Management*, **2018**, 224, 122-129	7.9	13
72	Dynamic and rate-dependent yielding in model cohesive suspensions. *Journal of Non-Newtonian Fluid Mechanics*, **2015**, 221, 40-54	2.7	13
71	Influence of dispersant size on rheology of non-aqueous ceramic particle suspensions. *Advanced Powder Technology*, **2011**, 22, 476-481	4.6	13
70	The role of natural organic matter in suspension stability: 2. Modelling of particle–particle interaction. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2007**, 295, 67-74	5.1	13
69	Contaminated water treatment in cold regions: an example of coagulation and dewatering modelling in Antarctica. *Cold Regions Science and Technology*, **2005**, 41, 61-72	3.8	13
68	Fundamental dewatering characteristics of potable water treatment sludges **2004**, 53, 29-36		13
67	Applications of PIXE and diagnostic leaching in the characterisation of complex gold ores. *Minerals Engineering*, **2005**, 18, 1010-1019	4.9	13
66	A new integrated potable reuse process for a small remote community in Antarctica. *Chemical Engineering Research and Design*, **2016**, 104, 196-208	5.5	12
65	Biogas Improvement by Adding Australian Zeolite During the Anaerobic Digestion of C:N Ratio Adjusted Swine Manure. *Waste and Biomass Valorization*, **2019**, 10, 1883-1887	3.2	12
64	The non-monotonic shear-thinning flow of two strongly cohesive concentrated suspensions. *Journal of Non-Newtonian Fluid Mechanics*, **2015**, 222, 112-120	2.7	11

63	Concentrated synthesis of metal nanoparticles in water. *RSC Advances*, **2014**, 4, 31914-31925	3.7	11
62	Effect of particle size distribution on the accuracy of electroacoustic mobilities. *Langmuir*, **1992**, 8, 385-389	4	11
61	Mathematical modelling of batch sedimentation subject to slow aggregate densification. *Chemical Engineering Science*, **2015**, 128, 54-63	4.4	10
60	Assessment of pressure decay test for RO protozoa removal validation in remote operations. *Desalination*, **2016**, 386, 19-24	10.3	10
59	Behaviour of cyanobacterial bloom material following coagulation and/or sedimentation **2013**, 62, 350-358		10
58	Ozone combined with ceramic membranes for water treatment: Impact on HO radical formation and mitigation of bromate. *Journal of Environmental Management*, **2020**, 253, 109655	7.9	10
57	Models of rotary vacuum drum and disc filters for flocculated suspensions. *AICHE Journal*, **2011**, 57, 951-961	3.6	9
56	One-dimensional model of vacuum filtration of compressible flocculated suspensions. *AICHE Journal*, **2010**, 56, 2622-2631	3.6	9
55	Use of a superthickener device to concentrate potable water sludge. *Water Research*, **2000**, 34, 288-294	12.5	9
54	Nitrogen Availability and the Nature of Extracellular Organic Matter of Microalgae. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6795-6805	3.9	9
53	High pressure dewatering rolls: Comparison of a novel prototype to existing industrial technology. *Chemical Engineering Science*, **2019**, 205, 106-120	4.4	8
52	Characterization of Bed Densification in a Laboratory Scale Thickener, by Novel Application of an Acoustic Backscatter System. *Procedia Engineering*, **2015**, 102, 858-866		8
51	Dry stacking of wastewater treatment sludges. *Water Research*, **2013**, 47, 3534-42	12.5	8
50	Small Scale Direct Potable Reuse (DPR) Project for a Remote Area. *Water (Switzerland)*, **2017**, 9, 94	3	8
49	Compressive Strength and Capillary Pressure: Competing Properties of Particulate Suspensions that Determine the Onset of Desaturation. *Drying Technology*, **2014**, 32, 1614-1620	2.6	8
48	Lignite addition during anaerobic digestion of ammonium rich swine manure enhances biogas production. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104669	6.8	8
47	Comparison of physical characteristics and dewatering behaviour between granular and floccular sludges generated from the same sewage source. *Journal of Water Process Engineering*, **2019**, 29, 100785	6.7	7
46	Designing thickeners by matching hindered settling and gelled suspension zones in the presence of aggregate densification. *Chemical Engineering Science*, **2015**, 134, 297-307	4.4	7

45	Ammonium removal from high-strength aqueous solutions by Australian zeolite. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2016**, 51, 614-25	2.3	7
44	Effects of aggregate densification upon thickening of Kynchian suspensions. *Chemical Engineering Science*, **2014**, 111, 56-72	4.4	7
43	Compressibility of biotic sludges An osmotic approach. *Chemical Engineering Journal*, **2011**, 166, 678-686	4.7	7
42	Reply to Comments on The Binding of Monovalent Electrolyte Ions on Alumina. I. Electroacoustic Studies at High Electrolyte Concentrations *Langmuir*, **1999**, 15, 8935-8936	4	7
41	Electrokinetics of muscovite mica in the presence of adsorbed cationic surfactants. *Langmuir*, **1992**, 8, 277-282	4	7
40	Spectroscopic and electrokinetic study of pH-dependent ionization of Langmuir-Blodgett films. *Langmuir*, **1991**, 7, 3057-3064	4	7
39	Removal of excess nutrients by Australian zeolite during anaerobic digestion of swine manure. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2018**, 53, 362-372	2.3	7
38	Rheological properties of concentrated slurries of harvested, incubated and ruptured Nannochloropsis sp. cells. *BMC Chemical Engineering*, **2019**, 1,	3.5	6
37	Effect of Bulk Viscosity and Emulsion Droplet Size on the Separation Efficiency of Model Mineral Oil-in-Water (O/W) Emulsions under Ultrasonic Standing Wave Fields: A Theoretical and Experimental Investigation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 7901-7912	3.9	6
36	Optimisation of filter design and operation for wastewater treatment sludge. *Separation and Purification Technology*, **2018**, 198, 31-37	8.3	6
35	Simulation of phage dynamics in multi-reactor models of complex wastewater treatment systems. *Biochemical Engineering Journal*, **2017**, 122, 91-102	4.2	6
34	Investigating the influence of total electrolyte concentration and sodium alcium ion competition on controlled dispersion of swelling clays. *International Journal of Mineral Processing*, **2009**, 93, 95-102		6
33	Scaling filtration time initial dependencies of wastewater sludges. *Water Research*, **2007**, 41, 206-16	12.5	6
32	Wall effects during settling in cylinders. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 449, 157-169	5.1	5
31	Effects of Particle Alignment on the Flow Properties of an Expandable Mica in Na5P3O10 and K4P2O7 Solutions. *Langmuir*, **1997**, 13, 6393-6399	4	5
30	Measurement Errors in Yield Stress Rheometry that Arise from Torque Auto Zero. *Applied Rheology*, **2006**, 16, 206-209	1.2	5
29	Insights into sample preparation for dielectric response measurements. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2001**, 194, 271-286	5.1	5
28	The Influence of Surface Chemistry on the Rheology and Flow of Flocculated Particulate Suspensions. *Mineral Processing and Extractive Metallurgy Review*, **2000**, 20, 27-40	3.1	5

27	Understanding the Thickening Process **2006**,		5
26	Filter Press Performance for Fast-Filtering Compressible Suspensions. *Chemical Engineering and Technology*, **2016**, 39, 409-416	2	5
25	Healthy waterways and ecologically sustainable cities in Beijing-Tianjin-Hebei urban agglomeration (northern China): Challenges and future directions. *Wiley Interdisciplinary Reviews: Water*, **2021**, 8, e1500	5.7	5
24	Yield and flow measurement of fine and coarse binary particulate mineral slurries. *International Journal of Mineral Processing*, **2013**, 119, 6-15		4
23	An electrokinetic study of Langmuir-Blodgett film coated surfaces. *Thin Solid Films*, **1992**, 215, 223-228	2.2	4
22	Predicting Transmembrane Pressure Rise from Biofouling Layer Compressibility and Permeability. *Chemical Engineering and Technology*, **2018**, 41, 51-60	2	4
21	Vane-in-a-Filter and Vane-under-Compressional-Loading: novel methods for the characterisation of combined shear and compression. *Rheologica Acta*, **2020**, 59, 349-363	2.3	3
20	Developing an anaerobic digester with external Zeolite filled column for enhancing methane production from swine manure - A feasibility study. *Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes*, **2018**, 53, 751-760	2.2	3
19	Concentrated aqueous synthesis of nanoparticles using comb-graft copolymer stabilisers: the effect of stabiliser architecture. *RSC Advances*, **2014**, 4, 46876-46886	3.7	3
18	Spectroscopic and electrokinetic study of the pH-dependent ionization of Langmuir-Blodgett films. 2. *Langmuir*, **1992**, 8, 217-221	4	3
17	The effect of alum dose on the consolidation behaviour of coagulated clay dispersions **2004**, 53, 545-552		3
16	Interplay between interfacial behaviour, cell structure and shear enables biphasic lipid extraction from whole diatom cells (Navicula sp.). *Journal of Colloid and Interface Science*, **2021**, 589, 65-76	9.3	3
15	A critical control point approach to the removal of chemicals of concern from water for reuse. *Water Research*, **2019**, 160, 39-51	12.5	2
14	Effect of sodium dodecylbenzene sulfonate on the dispersion stability of ceramic glaze suspension. *Korean Journal of Chemical Engineering*, **2014**, 31, 1076-1081	2.8	2
13	Compressional dewatering of flocculated mineral suspensions. *Canadian Journal of Chemical Engineering*, **2015**, 93, 549-552	2.3	2
12	The Development and Applications of Microbubble Generators Especially for Wastewater Treatment. *Advanced Materials Research*, **2012**, 518-523, 2891-2894	0.5	2
11	Semi-empirical full cycle optimisation of fill, squeeze and blow plate and frame pressure filters. *Chemical Engineering Science*, **2010**, 65, 2700-2706	4.4	2
10	The Oxide–Water Interface: How Valid Is the Site Dissociation–Surface Equilibria Model?. *Chemistry Letters*, **2012**, 41, 1020-1022	1.7	1

9	Particulate hematite diffusion in sodium polyacrylate solutions. The effect of ionic strength. *Journal of Colloid and Interface Science*, **2002**, 247, 303-9	9.3	1
8	Water quality risk management strategies for remote operations. *Water Science and Technology: Water Supply*, **2018**, 18, 482-489	1.4	1
7	Strain softening of concentrated cohesive particulate suspensions prior to yield. *Journal of Rheology*, **2021**, 65, 355-370	4.1	0
6	Dewatering of water treatment plant sludges. *Interface Science and Technology*, **2006**, 225-243	2.3	
5	Ultrasound-Assisted Extracellular Polymeric Substance Removal from the Diatom Navicula sp.: A Route to Functional Polysaccharides and More Efficient Algal Biorefineries. *ACS Sustainable Chemistry and Engineering*, **2022**, 10, 1795-1804	8.3	
4	Synergistic Influence of pH and Temperature on Rheological Behavior of Adhesive Emulsions Stabilized with Micelle Dispersion of an Anionic Surfactant. *Journal of Surfactants and Detergents*, **2019**, 22, 301-313	1.9	
3	Cover Image, Volume 8, Issue 2. *Wiley Interdisciplinary Reviews: Water*, **2021**, 8, e1515	5.7	
2	The fundamentals of wastewater sludge characterization and filtration. *Water Science and Technology*, **2004**, 49, 67-72	2.2	
1	Agglomeration Regimes of Particles under a Linear Laminar Flow: A Numerical Study. *Mathematics*, **2022**, 10, 1931	2.3	