## John Gregory

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Coagulation by hydrolysing metal salts. Advances in Colloid and Interface Science, 2003, 100-102, 475-502.	14.7	1,213
2	Organic polyelectrolytes in water treatment. Water Research, 2007, 41, 2301-2324.	11.3	1,107
3	Approximate expressions for retarded van der waals interaction. Journal of Colloid and Interface Science, 1981, 83, 138-145.	9.4	753
4	A review of floc strength and breakage. Water Research, 2005, 39, 3121-3137.	11.3	565
5	Rates of flocculation of latex particles by cationic polymers. Journal of Colloid and Interface Science, 1973, 42, 448-456.	9.4	407
6	Interaction of unequal double layers at constant charge. Journal of Colloid and Interface Science, 1975, 51, 44-51.	9.4	405
7	Adsorption and flocculation by polymers and polymer mixtures. Advances in Colloid and Interface Science, 2011, 169, 1-12.	14.7	343
8	The reversibility of floc breakage. International Journal of Mineral Processing, 2004, 73, 251-259.	2.6	289
9	Fundamentals of flocculation. Critical Reviews in Environmental Control, 1989, 19, 185-230.	0.7	245
10	Hydrolyzing metal salts as coagulants. Pure and Applied Chemistry, 2001, 73, 2017-2026.	1.9	222
11	Speciation stability of inorganic polymer flocculant–PACI. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 243, 1-10.	4.7	214
12	Turbidity fluctuations in flowing suspensions. Journal of Colloid and Interface Science, 1985, 105, 357-371.	9.4	205
13	Monitoring particle aggregation processes. Advances in Colloid and Interface Science, 2009, 147-148, 109-123.	14.7	198
14	Polymer adsorption and flocculation in sheared suspensions. Colloids and Surfaces, 1988, 31, 231-253.	0.9	180
15	The calculation of Hamaker constants. Advances in Colloid and Interface Science, 1970, 2, 396-417.	14.7	178
16	Relative Importance of Charge Neutralization and Precipitation on Coagulation of Kaolin with PACI:Â Effect of Sulfate Ion. Environmental Science & Technology, 2002, 36, 1815-1820.	10.0	172
17	Monitoring of aggregates in flowing suspensions. Colloids and Surfaces, 1986, 18, 175-188.	0.9	142
18	The interaction of humic substances with cationic polyelectrolytes. Water Research, 2001, 35, 3557-3566.	11.3	130

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19	The effect of cationic polymers on the colloidal stability of latex particles. Journal of Colloid and Interface Science, 1976, 55, 35-44.	9.4	111
20	The role of mixing conditions on floc growth, breakage and re-growth. Chemical Engineering Journal, 2011, 171, 425-430.	12.7	105
21	The effect of rapid mixing on the break-up and re-formation of flocs. Journal of Chemical Technology and Biotechnology, 2004, 79, 782-788.	3.2	93
22	Charge determination of synthetic cationic polyelectrolytes by colloid titration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 159, 165-179.	4.7	88
23	Breakage and Regrowth of Al-Humic Flocs - Effect of Additional Coagulant Dosage. Environmental Science & Technology, 2010, 44, 6371-6376.	10.0	88
24	Deposition of latex particles on alumina fibers. Colloids and Surfaces, 1980, 1, 313-334.	0.9	77
25	Effect of two-stage coagulant addition on coagulation-ultrafiltration process for treatment of humic-rich water. Water Research, 2011, 45, 4260-4268.	11.3	77
26	Flocculation in laminar tube flow. Chemical Engineering Science, 1981, 36, 1789-1794.	3.8	72
27	Flocculation and sedimentation of high-turbidity waters. Water Research, 1991, 25, 1137-1143.	11.3	72
28	Flocculation of polystyrene particles with cationic polyelectrolytes. Transactions of the Faraday Society, 1969, 65, 2260.	0.9	70
29	The role of floc density in solid-liquid separation. Filtration and Separation, 1998, 35, 367-366.	0.0	68
30	Breakage and re-growth of flocs formed by charge neutralization using alum and polyDADMAC. Water Research, 2010, 44, 3959-3965.	11.3	68
31	Breakage and Re-formation of Alum Flocs. Environmental Engineering Science, 2002, 19, 229-236.	1.6	66
32	Dependence of floc properties on coagulant type, dosing mode and nature of particles. Water Research, 2015, 68, 119-126.	11.3	63
33	The variation of flocs activity during floc breakage and aging, adsorbing phosphate, humic acid and clay particles. Water Research, 2019, 155, 131-141.	11.3	57
34	Breakage and re-growth of flocs: Effect of additional doses of coagulant species. Water Research, 2011, 45, 6718-6724.	11.3	53
35	Influence of soluble silica on coagulation by aluminium sulphate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1996, 107, 309-319.	4.7	49
36	Fractal dimension of large aggregates under different flocculation conditions. Science of the Total Environment, 2017, 609, 807-814.	8.0	45

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37	The influence of silicic acid on aluminium hydroxide precipitation and flocculation by aluminium salts. Journal of Inorganic Biochemistry, 1998, 69, 193-201.	3.5	44
38	The density of particle aggregates. Water Science and Technology, 1997, 36, 1-13.	2.5	43
39	Turbidity and beyond. Filtration and Separation, 1998, 35, 63-67.	0.0	41
40	The effect of additional coagulant on the re-growth of alum–kaolin flocs. Separation and Purification Technology, 2010, 74, 305-309.	7.9	41
41	The Role of Colloid Interactions in Solid-Liquid Separation. Water Science and Technology, 1993, 27, 1-17.	2.5	40
42	EFFECTS OF DOSING AND MIXING CONDITIONS ON POLYMER FLOCCULATION OF CONCENTRATED SUSPENSIONS. Chemical Engineering Communications, 1991, 108, 3-21.	2.6	39
43	Pre-coagulation on the submerged membrane fouling in nano-scale: Effect of sedimentation process. Chemical Engineering Journal, 2015, 262, 676-682.	12.7	37
44	Approximate expression for the interaction of diffuse electrical double layers at constant charge. Journal of the Chemical Society, Faraday Transactions 2, 1973, 69, 1723.	1.1	34
45	The effect of mixing on stability and break-up of aggregates formed from aluminum sulfate hydrolysis products. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 298, 34-41.	4.7	31
46	Zeta potentials and sizes of aluminum salt precipitates – Effect of anions and organics and implications for coagulation mechanisms. Journal of Water Process Engineering, 2014, 4, 224-232.	5.6	30
47	Regrowth of Broken Hydroxide Flocs: Effect of Added Fluoride. Environmental Science & Technology, 2016, 50, 1828-1833.	10.0	30
48	Effect of crystallization of settled aluminum hydroxide precipitate on "dissolved Al― Water Research, 2018, 143, 346-354.	11.3	29
49	The Influence of Small Organic Molecules on Coagulation from the Perspective of Hydrolysis Competition and Crystallization. Environmental Science & Technology, 2021, 55, 7456-7465.	10.0	29
50	Wastewater treatment by ion exchange. Water Research, 1972, 6, 681-694.	11.3	27
51	Influence of flocs breakage process on submerged ultrafiltration membrane fouling. Journal of Membrane Science, 2011, 385-386, 194-199.	8.2	27
52	Kinetic aspects of flocculation by cationic polymers. British Polymer Journal, 1974, 6, 47-59.	0.7	25
53	Cryptosporidium in water: Treatment and monitoring methods. Filtration and Separation, 1994, 31, 283-268.	0.0	24
54	Effect of humic acid on coagulation performance during aggregation at low temperature. Chemical Engineering Journal, 2013, 223, 412-417.	12.7	21

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55	Optical monitoring of particle aggregates. Journal of Environmental Sciences, 2009, 21, 2-7.	6.1	20
56	Particle interactions in flowing suspensions. Advances in Colloid and Interface Science, 1982, 17, 149-160.	14.7	18
57	Aggregation of nano-sized alum–humic primary particles. Separation and Purification Technology, 2012, 99, 44-49.	7.9	18
58	Surface properties and aggregation of basic aluminium sulphate hydrolysis products. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 230, 117-129.	4.7	16
59	Effect of Coagulation and Applied Breakage Shear on the Regrowth of Kaolin Flocs. Environmental Engineering Science, 2010, 27, 483-492.	1.6	16
60	Effect of enhanced coagulation by KMnO4 on the fouling of ultrafiltration membranes. Water Science and Technology, 2011, 64, 1497-1502.	2.5	16
61	Anion exchange equilibria involving phosphate, sulphate and chloride. Water Research, 1972, 6, 695-702.	11.3	15
62	Laminar dispersion and the monitoring of flocculation processes. Journal of Colloid and Interface Science, 1987, 118, 397-409.	9.4	15
63	Polymeric Flocculants. , 1983, , 307-320.		15
64	Selectivity of strongly basic anion exchange resins for organic anions. Environmental Science & Technology, 1974, 8, 834-839.	10.0	12
65	Structure of Al-humic flocs and their removal at slightly acidic and neutral pH. Water Science and Technology: Water Supply, 2002, 2, 99-106.	2.1	12
66	Investigation of the property of kaolin–alum flocs at acidic pH. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 177-181.	4.7	12
67	Strength assessment of Al-Humic and Al-Kaolin aggregates by intrusive and non-intrusive methods. Separation and Purification Technology, 2019, 217, 265-273.	7.9	12
68	A new technique for monitoring alum sludge conditioning. Water Research, 1988, 22, 85-90.	11.3	10
69	Mechanistic Difference of Coagulation of Kaolin Between PACl and Cationic Polyelectrolytes: A Comparative Study on Zone 2 Coagulation. Drying Technology, 2008, 26, 1060-1067.	3.1	10
70	Particle Aggregation: Modelling and Measurement. , 1996, , 203-255.		9
71	Nonintrusive investigation of large Al-kaolin fractal aggregates with slow settling velocities. Water Research, 2020, 185, 116287.	11.3	8
72	Monitoring floc formation and breakage. Water Science and Technology, 2004, 50, 163-70.	2.5	8

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#	Article	IF	CITATIONS
73	Flocculation of Fine Particles. , 1992, , 101-124.		7
74	The effect of polymeric flocculants on floc strength and filter performance. Water Science and Technology, 2006, 53, 77-85.	2.5	6
75	Modified ferron assay for speciation characterization of hydrolyzed Al(III): a precise k value based judgment. Water Science and Technology, 2009, 59, 823-832.	2.5	5
76	The Effect of Ozone on the Reversibility of Floc Breakage: Suspensions with High Humic Acid Content. Ozone: Science and Engineering, 2010, 32, 435-443.	2.5	5
77	Van der Waals interaction between mica surfaces: comparison of theory and experiment. Journal of the Chemical Society Faraday Transactions I, 1977, 73, 1983.	1.0	4
78	On-line measurement of Brewer's yeast flocculation during fermentation. Biotechnology Letters, 1993, 7, 651-656.	0.5	4
79	Effect of tapering on the break-up and reformation of flocs formed using hydrolyzing coagulants. Water Science and Technology: Water Supply, 2006, 6, 139-145.	2.1	4
80	Effect of Ozone on the Formation and Breakup of Flocs in Raw Waters with High Algae Content. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 1173-1182.	1.7	4
81	Floc formation and floc structure. Interface Science and Technology, 2006, 10, 25-43.	3.3	4
82	DEVELOPMENT OF AN ADVANCED WATER TREATMENT SYSTEM FOR WASTEWATER REUSE. Environmental Technology (United Kingdom), 2008, 29, 931-939.	2.2	4
83	EFFECT OF DOSING AND MIXING CONDITIONS ON FLOCCULATION BY POLYMERS. , 1991, , 3-17.		2
84	Reply to comment on the interaction of humic substances with cationic polyelectrolytes. Water Research, 2003, 37, 717.	11.3	2
85	Coagulation and filtration. , 2003, , 633-655.		2
86	Flocculation and Filtration of Colloidal Particles. , 1984, , 59-70.		2
87	Ceramics and flocculation. Nature, 1989, 341, 191-191.	27.8	0
88	<title>New optical method for water treatment control</title> . , 1999, 3821, 300.		0
89	Edmund Rank, 1921–2014. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 307-308.	4.7	0
90	A Sensitive Monitor for Particles in Liquids. , 1990, , 321-333.		0