

John Gregory

List of Publications by Year in descending order

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90
papers

9,226
citations

81743

39
h-index

60497

81
g-index

95
all docs

95
docs citations

95
times ranked

5758
citing authors

#	ARTICLE	IF	CITATIONS
1	Coagulation by hydrolysing metal salts. <i>Advances in Colloid and Interface Science</i> , 2003, 100-102, 475-502.	7.0	1,213
2	Organic polyelectrolytes in water treatment. <i>Water Research</i> , 2007, 41, 2301-2324.	5.3	1,107
3	Approximate expressions for retarded van der waals interaction. <i>Journal of Colloid and Interface Science</i> , 1981, 83, 138-145.	5.0	753
4	A review of floc strength and breakage. <i>Water Research</i> , 2005, 39, 3121-3137.	5.3	565
5	Rates of flocculation of latex particles by cationic polymers. <i>Journal of Colloid and Interface Science</i> , 1973, 42, 448-456.	5.0	407
6	Interaction of unequal double layers at constant charge. <i>Journal of Colloid and Interface Science</i> , 1975, 51, 44-51.	5.0	405
7	Adsorption and flocculation by polymers and polymer mixtures. <i>Advances in Colloid and Interface Science</i> , 2011, 169, 1-12.	7.0	343
8	The reversibility of floc breakage. <i>International Journal of Mineral Processing</i> , 2004, 73, 251-259.	2.6	289
9	Fundamentals of flocculation. <i>Critical Reviews in Environmental Control</i> , 1989, 19, 185-230.	0.7	245
10	Hydrolyzing metal salts as coagulants. <i>Pure and Applied Chemistry</i> , 2001, 73, 2017-2026.	0.9	222
11	Speciation stability of inorganic polymer flocculantâ€“PACl. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 243, 1-10.	2.3	214
12	Turbidity fluctuations in flowing suspensions. <i>Journal of Colloid and Interface Science</i> , 1985, 105, 357-371.	5.0	205
13	Monitoring particle aggregation processes. <i>Advances in Colloid and Interface Science</i> , 2009, 147-148, 109-123.	7.0	198
14	Polymer adsorption and flocculation in sheared suspensions. <i>Colloids and Surfaces</i> , 1988, 31, 231-253.	0.9	180
15	The calculation of Hamaker constants. <i>Advances in Colloid and Interface Science</i> , 1970, 2, 396-417.	7.0	178
16	Relative Importance of Charge Neutralization and Precipitation on Coagulation of Kaolin with PACl:Â Effect of Sulfate Ion. <i>Environmental Science & Technology</i> , 2002, 36, 1815-1820.	4.6	172
17	Monitoring of aggregates in flowing suspensions. <i>Colloids and Surfaces</i> , 1986, 18, 175-188.	0.9	142
18	The interaction of humic substances with cationic polyelectrolytes. <i>Water Research</i> , 2001, 35, 3557-3566.	5.3	130

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19	The effect of cationic polymers on the colloidal stability of latex particles. <i>Journal of Colloid and Interface Science</i> , 1976, 55, 35-44.	5.0	111
20	The role of mixing conditions on floc growth, breakage and re-growth. <i>Chemical Engineering Journal</i> , 2011, 171, 425-430.	6.6	105
21	The effect of rapid mixing on the break-up and re-formation of flocs. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 782-788.	1.6	93
22	Charge determination of synthetic cationic polyelectrolytes by colloid titration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 159, 165-179.	2.3	88
23	Breakage and Regrowth of Al-Humic Flocs - Effect of Additional Coagulant Dosage. <i>Environmental Science & Technology</i> , 2010, 44, 6371-6376.	4.6	88
24	Deposition of latex particles on alumina fibers. <i>Colloids and Surfaces</i> , 1980, 1, 313-334.	0.9	77
25	Effect of two-stage coagulant addition on coagulation-ultrafiltration process for treatment of humic-rich water. <i>Water Research</i> , 2011, 45, 4260-4268.	5.3	77
26	Flocculation in laminar tube flow. <i>Chemical Engineering Science</i> , 1981, 36, 1789-1794.	1.9	72
27	Flocculation and sedimentation of high-turbidity waters. <i>Water Research</i> , 1991, 25, 1137-1143.	5.3	72
28	Flocculation of polystyrene particles with cationic polyelectrolytes. <i>Transactions of the Faraday Society</i> , 1969, 65, 2260.	0.9	70
29	The role of floc density in solid-liquid separation. <i>Filtration and Separation</i> , 1998, 35, 367-366.	0.2	68
30	Breakage and re-growth of flocs formed by charge neutralization using alum and polyDADMAC. <i>Water Research</i> , 2010, 44, 3959-3965.	5.3	68
31	Breakage and Re-formation of Alum Flocs. <i>Environmental Engineering Science</i> , 2002, 19, 229-236.	0.8	66
32	Dependence of floc properties on coagulant type, dosing mode and nature of particles. <i>Water Research</i> , 2015, 68, 119-126.	5.3	63
33	The variation of flocs activity during floc breakage and aging, adsorbing phosphate, humic acid and clay particles. <i>Water Research</i> , 2019, 155, 131-141.	5.3	57
34	Breakage and re-growth of flocs: Effect of additional doses of coagulant species. <i>Water Research</i> , 2011, 45, 6718-6724.	5.3	53
35	Influence of soluble silica on coagulation by aluminium sulphate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 107, 309-319.	2.3	49
36	Fractal dimension of large aggregates under different flocculation conditions. <i>Science of the Total Environment</i> , 2017, 609, 807-814.	3.9	45

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37	The influence of silicic acid on aluminium hydroxide precipitation and flocculation by aluminium salts. <i>Journal of Inorganic Biochemistry</i> , 1998, 69, 193-201.	1.5	44
38	The density of particle aggregates. <i>Water Science and Technology</i> , 1997, 36, 1-13.	1.2	43
39	Turbidity and beyond. <i>Filtration and Separation</i> , 1998, 35, 63-67.	0.2	41
40	The effect of additional coagulant on the re-growth of alum-kaolin flocs. <i>Separation and Purification Technology</i> , 2010, 74, 305-309.	3.9	41
41	The Role of Colloid Interactions in Solid-Liquid Separation. <i>Water Science and Technology</i> , 1993, 27, 1-17.	1.2	40
42	EFFECTS OF DOSING AND MIXING CONDITIONS ON POLYMER FLOCCULATION OF CONCENTRATED SUSPENSIONS. <i>Chemical Engineering Communications</i> , 1991, 108, 3-21.	1.5	39
43	Pre-coagulation on the submerged membrane fouling in nano-scale: Effect of sedimentation process. <i>Chemical Engineering Journal</i> , 2015, 262, 676-682.	6.6	37
44	Approximate expression for the interaction of diffuse electrical double layers at constant charge. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1973, 69, 1723.	1.1	34
45	The effect of mixing on stability and break-up of aggregates formed from aluminum sulfate hydrolysis products. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 298, 34-41.	2.3	31
46	Zeta potentials and sizes of aluminum salt precipitates – Effect of anions and organics and implications for coagulation mechanisms. <i>Journal of Water Process Engineering</i> , 2014, 4, 224-232.	2.6	30
47	Regrowth of Broken Hydroxide Flocs: Effect of Added Fluoride. <i>Environmental Science & Technology</i> , 2016, 50, 1828-1833.	4.6	30
48	Effect of crystallization of settled aluminum hydroxide precipitate on dissolved Al. <i>Water Research</i> , 2018, 143, 346-354.	5.3	29
49	The Influence of Small Organic Molecules on Coagulation from the Perspective of Hydrolysis Competition and Crystallization. <i>Environmental Science & Technology</i> , 2021, 55, 7456-7465.	4.6	29
50	Wastewater treatment by ion exchange. <i>Water Research</i> , 1972, 6, 681-694.	5.3	27
51	Influence of flocs breakage process on submerged ultrafiltration membrane fouling. <i>Journal of Membrane Science</i> , 2011, 385-386, 194-199.	4.1	27
52	Kinetic aspects of flocculation by cationic polymers. <i>British Polymer Journal</i> , 1974, 6, 47-59.	0.7	25
53	Cryptosporidium in water: Treatment and monitoring methods. <i>Filtration and Separation</i> , 1994, 31, 283-268.	0.2	24
54	Effect of humic acid on coagulation performance during aggregation at low temperature. <i>Chemical Engineering Journal</i> , 2013, 223, 412-417.	6.6	21

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55	Optical monitoring of particle aggregates. <i>Journal of Environmental Sciences</i> , 2009, 21, 2-7.	3.2	20
56	Particle interactions in flowing suspensions. <i>Advances in Colloid and Interface Science</i> , 1982, 17, 149-160.	7.0	18
57	Aggregation of nano-sized alumina-humic primary particles. <i>Separation and Purification Technology</i> , 2012, 99, 44-49.	3.9	18
58	Surface properties and aggregation of basic aluminium sulphate hydrolysis products. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 230, 117-129.	2.3	16
59	Effect of Coagulation and Applied Breakage Shear on the Regrowth of Kaolin Flocs. <i>Environmental Engineering Science</i> , 2010, 27, 483-492.	0.8	16
60	Effect of enhanced coagulation by KMnO4 on the fouling of ultrafiltration membranes. <i>Water Science and Technology</i> , 2011, 64, 1497-1502.	1.2	16
61	Anion exchange equilibria involving phosphate, sulphate and chloride. <i>Water Research</i> , 1972, 6, 695-702.	5.3	15
62	Laminar dispersion and the monitoring of flocculation processes. <i>Journal of Colloid and Interface Science</i> , 1987, 118, 397-409.	5.0	15
63	Polymeric Flocculants. , 1983, , 307-320.		15
64	Selectivity of strongly basic anion exchange resins for organic anions. <i>Environmental Science & Technology</i> , 1974, 8, 834-839.	4.6	12
65	Structure of Al-humic flocs and their removal at slightly acidic and neutral pH. <i>Water Science and Technology: Water Supply</i> , 2002, 2, 99-106.	1.0	12
66	Investigation of the property of kaolin-alum flocs at acidic pH. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 177-181.	2.3	12
67	Strength assessment of Al-Humic and Al-Kaolin aggregates by intrusive and non-intrusive methods. <i>Separation and Purification Technology</i> , 2019, 217, 265-273.	3.9	12
68	A new technique for monitoring alum sludge conditioning. <i>Water Research</i> , 1988, 22, 85-90.	5.3	10
69	Mechanistic Difference of Coagulation of Kaolin Between PACl and Cationic Polyelectrolytes: A Comparative Study on Zone 2 Coagulation. <i>Drying Technology</i> , 2008, 26, 1060-1067.	1.7	10
70	Particle Aggregation: Modelling and Measurement. , 1996, , 203-255.		9
71	Nonintrusive investigation of large Al-kaolin fractal aggregates with slow settling velocities. <i>Water Research</i> , 2020, 185, 116287.	5.3	8
72	Monitoring floc formation and breakage. <i>Water Science and Technology</i> , 2004, 50, 163-70.	1.2	8

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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.	1.2	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.	1.2	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.	1.4	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.	1.0	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.	0.9	4
81	Floc formation and floc structure. Interface Science and Technology, 2006, 10, 25-43.	1.6	4
82	DEVELOPMENT OF AN ADVANCED WATER TREATMENT SYSTEM FOR WASTEWATER REUSE. Environmental Technology (United Kingdom), 2008, 29, 931-939.	1.2	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.	5.3	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.	13.7	0
88	<title>New optical method for water treatment control</title>. , 1999, 3821, 300.		0
89	Edmund Rank, 1921â€“2014. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 456, 307-308.	2.3	0
90	A Sensitive Monitor for Particles in Liquids. , 1990, , 321-333.		0