Yasuhisa Adachi

List of Publications by Year
in descending order

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114 papers	6,868 citations	109137 35 h-index	60497 81 g-index
119 all docs	119 docs citations	119 times ranked	6892 citing authors

#	Article	IF	Citations
1	Vascularized and functional human liver from an iPSC-derived organ bud transplant. Nature, 2013, 499, 481-484.	13.7	1,689
2	DNA topoisomerase II is required for condensation and separation of mitotic chromosomes in S. pombe. Cell, 1987, 50, 917-925.	13.5	693
3	Chromosome assembly in vitro: Topoisomerase II is required for condensation. Cell, 1991, 64, 137-148.	13.5	402
4	Phosphorylation and Rapid Relocalization of 53BP1 to Nuclear Foci upon DNA Damage. Molecular and Cellular Biology, 2001, 21, 1719-1729.	1.1	326
5	Scaffold-associated regions: cis-acting determinants of chromatin structural loops and functional domains. Current Opinion in Genetics and Development, 1992, 2, 275-285.	1.5	325
6	Identification of the pleiotropic cell division cycle gene NDA2 as one of two different Î±-tubulin genes in schizosaccharomyces pombe. Cell, 1984, 37, 233-241.	13.5	235
7	INVOLVEMENT OF TRANSPORTERS IN THE HEPATIC UPTAKE AND BILIARY EXCRETION OF VALSARTAN, A SELECTIVE ANTAGONIST OF THE ANGIOTENSIN II AT1-RECEPTOR, IN HUMANS. Drug Metabolism and Disposition, 2006, 34, 1247-1254.	1.7	190
8	Comparative studies on in vitro methods for evaluating in vivo function of MDR1 P-glycoprotein. Pharmaceutical Research, 2001, 18, 1660-1668.	1.7	183
9	Chromosome walking shows a highly homologous repetitive sequence present in all the centromere regions of fission yeast. EMBO Journal, 1986, 5, 1011-1021.	3.5	182
10	A globular complex formation by Nda1 and the other five members of the MCM protein family in fission yeast. Genes To Cells, 1997, 2, 467-479.	0.5	126
11	Multiple Human Isoforms of Drug Transporters Contribute to the Hepatic and Renal Transport of Olmesartan, a Selective Antagonist of the Angiotensin II AT1-Receptor. Drug Metabolism and Disposition, 2007, 35, 2166-2176.	1.7	122
12	53BP1 exchanges slowly at the sites of DNA damage and appears to require RNA for its association with chromatin. Journal of Cell Science, 2005, 118, 2043-2055.	1.2	116
13	Breakup of Fractal Flocs in a Turbulent Flow. Langmuir, 1999, 15, 4351-4356.	1.6	93
14	Kinetochore localisation of the DNA damage response component 53BP1 during mitosis. Journal of Cell Science, 2002, 115, 71-79.	1.2	80
15	Role of Breast Cancer Resistance Protein (Bcrp1/Abcg2) in the Extrusion of Glucuronide and Sulfate Conjugates from Enterocytes to Intestinal Lumen. Molecular Pharmacology, 2005, 67, 923-928.	1.0	79
16	Adsorption of anionic surfactant sodium dodecyl sulfate onto alpha alumina with small surface area. Colloid and Polymer Science, 2015, 293, 217-227.	1.0	71
17	Quantitative evaluation of the function of small intestinal P-glycoprotein: comparative studies between in situ and in vitro. Pharmaceutical Research, 2003, 20, 1163-1169.	1.7	70
18	In Vitro Evaluation of Cytochrome P450 and Glucuronidation Activities in Hepatocytes Isolated from Liver-Humanized Mice. Drug Metabolism and Pharmacokinetics, 2010, 25, 539-550.	1.1	65

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19	Adsorption characteristics of beta-lactam cefixime onto nanosilica fabricated from rice HUSK with surface modification by polyelectrolyte. Journal of Molecular Liquids, 2020, 298, 111981.	2.3	59
20	Characteristics of ultra-fine bubble water and its trials on enhanced methane production from waste activated sludge. Bioresource Technology, 2019, 273, 63-69.	4.8	56
21	Adsorptive removal of ammonium ion from aqueous solution using surfactant-modified alumina. Environmental Chemistry, 2017, 14, 327.	0.7	55
22	Stability and performance of algal-bacterial granular sludge in shaking photo-sequencing batch reactors with special focus on phosphorus accumulation. Bioresource Technology, 2019, 280, 497-501.	4.8	54
23	Flotation and sedimentation of a single microcystis floc collected from surface bloom. Water Research, 1993, 27, 979-983.	5.3	53
24	Settling velocity of an aluminium-kaolinite floc. Water Research, 1997, 31, 449-454.	5.3	51
25	Adsorption characteristics of anionic azo dye onto large Î±-alumina beads. Colloid and Polymer Science, 2015, 293, 1877-1886.	1.0	51
26	Dynamics of polyelectrolyte adsorption and colloidal flocculation upon mixing studied using mono-dispersed polystyrene latex particles. Advances in Colloid and Interface Science, 2015, 226, 101-114.	7.0	50
27	Geometrical structure of a floc. Journal of Colloid and Interface Science, 1990, 135, 374-384.	5.0	49
28	Influence of ferrous iron dosing strategy on aerobic granulation of activated sludge and bioavailability of phosphorus accumulated in granules. Bioresource Technology Reports, 2018, 2, 7-14.	1.5	49
29	Organic Anion Transporter 3 Mediates the Efflux Transport of an Amphipathic Organic Anion, Dehydroepiandrosterone Sulfate, across the Blood-Brain Barrier in Mice. Drug Metabolism and Disposition, 2011, 39, 814-819.	1.7	44
30	Enhanced hydrolysis of waste activated sludge for methane production via anaerobic digestion under N2-nanobubble water addition. Science of the Total Environment, 2019, 693, 133524.	3.9	44
31	Effect of anionic surfactants on the stability ratio and electrophoretic mobility of colloidal hematite particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 510, 190-197.	2.3	42
32	Supplementation of O2-containing gas nanobubble water to enhance methane production from anaerobic digestion of cellulose. Chemical Engineering Journal, 2020, 398, 125652.	6.6	42
33	Rapid establishment and stable performance of a new algal-bacterial granule system from conventional bacterial aerobic granular sludge and preliminary analysis of mechanisms involved. Journal of Water Process Engineering, 2020, 34, 101073.	2.6	41
34	Ionic response of algal-bacterial granular sludge system during biological phosphorus removal from wastewater. Chemosphere, 2021, 264, 128534.	4.2	41
35	Granulation of activated sludge using butyrate and valerate as additional carbon source and granular phosphorus removal capacity during wastewater treatment. Bioresource Technology, 2019, 282, 269-274.	4.8	38
36	Behavior of algal-bacterial granular sludge in a novel closed photo-sequencing batch reactor under no external O2 supply. Bioresource Technology, 2020, 318, 124190.	4.8	36

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37	IN VITRO AND IN VIVO CORRELATION OF THE INHIBITORY EFFECT OF CYCLOSPORIN A ON THE TRANSPORTER-MEDIATED HEPATIC UPTAKE OF CERIVASTATIN IN RATS. Drug Metabolism and Disposition, 2004, 32, 1468-1475.	1.7	35
38	Effect of floc structure on the rate of Brownian coagulation. Journal of Colloid and Interface Science, 2006, 304, 115-118.	5.0	33
39	Adsorption of Polyanion onto Large Alpha Alumina Beads with Variably Charged Surface. Advances in Physical Chemistry, 2014, 2014, 1-9.	2.0	32
40	A novel anaerobic digestion system coupling biogas recirculation with MgCl2 addition for multipurpose sewage sludge treatment. Journal of Cleaner Production, 2019, 230, 499-507.	4.6	32
41	Kinetics of flocculation of polystyrene latex particles in the mixing flow induced with high charge density polycation near the isoelectric point. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 471, 38-44.	2.3	31
42	Effects of nanobubble water on the growth ofLactobacillus acidophilus1028 and its lactic acid production. RSC Advances, 2019, 9, 30760-30767.	1.7	31
43	Effect of floc structure on the rate of shear coagulation. Journal of Colloid and Interface Science, 2004, 272, 345-351.	5.0	30
44	Structure of Colloidal Flocs in relation to the Dynamic Properties of Unstable Suspension. International Journal of Polymer Science, 2012, 2012, 1-14.	1.2	30
45	Interfacial characterization of Î±-alumina with small surface area by streaming potential and chromatography. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 148-157.	2.3	28
46	Coagulation and charging of latex particles in the presence of imogolite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 435, 139-146.	2.3	28
47	On the Steady Shear Viscosity of Coagulated Suspensions.. Nihon Reoroji Gakkaishi, 2000, 28, 143-144.	0.2	25
48	Colloid stability and coagulation rate of polystyrene latex particles in a turbulent flow. International Journal of Mineral Processing, 2004, 73, 177-181.	2.6	24
49	Rapid granulation of aerobic granular sludge: A mini review on operation strategies and comparative analysis. Bioresource Technology Reports, 2019, 7, 100206.	1.5	23
50	Capture efficiency and coagulation rate of polystyrene latex particles in a laminar shear flow: Effects of ionic strength and shear rate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 266, 150-154.	2.3	22
51	Effect of nano-bubble water on high solid anaerobic digestion of pig manure: Focus on digestion stability, methanogenesis performance and related mechanisms. Bioresource Technology, 2020, 315, 123793.	4.8	22
52	Coupling biogas recirculation with FeCl3 addition in anaerobic digestion system for simultaneous biogas upgrading, phosphorus conservation and sludge conditioning. Bioresource Technology, 2020, 315, 123811.	4.8	22
53	Alleviation of ammonia inhibition via nano-bubble water supplementation during anaerobic digestion of ammonia-rich swine manure: Buffering capacity promotion and methane production enhancement. Bioresource Technology, 2021, 333, 125131.	4.8	21
54	Application of a scaling law to the analysis of allophane aggregates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 151, 43-47.	2.3	20

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55	Transient behavior of adsorbing/adsorbed polyelectrolytes on the surface of colloidal particles studied by means of trajectory analysis of Brownian motion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 376, 9-13.	2.3	19
56	Settling velocity of a sodium montmorillonite floc under high ionic strength. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 196, 87-91.	2.3	17
57	Hepatic Uptake and Excretion of (â€“)-N-{2-[(R)-3-(6,7-Dimethoxy-1,2,3,4-tetrahydroisoquinoline-2-carbonyl)piperidino]ethyl}-4-fluorobenzamide (YM758), a Novel If Channel Inhibitor, in Rats and Humans. Drug Metabolism and Disposition, 2008, 36, 1030-1038.	1.7	17
58	Clusterâ€“cluster aggregation simulation in a concentrated suspension. Journal of Colloid and Interface Science, 2011, 363, 34-41.	5.0	17
59	Kinetics of Brownian flocculation of polystyrene latex by cationic polyelectrolyte as a function of ionic strength. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 440, 155-160.	2.3	17
60	Relaxation of adsorbed layer thickness and electrophoresis of polystyrene latex particles after overshooting of polyelectrolytes with different charge density. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125208.	2.3	16
61	Fabrication, Microstructure and Colloidal Stability of Humic Acids Loaded Fe3O4/APTES Nanosorbents for Environmental Applications. Nanomaterials, 2021, 11, 1418.	1.9	16
62	Sedimentation of a polystyrene latex floc. Powder Technology, 1994, 78, 129-135.	2.1	15
63	Effects of electrolyte concentration and pH on the sedimentation rate of coagulated suspension of sodium montmorillonite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 686-693.	2.3	14
64	Morphology and Breaking of Latex Particle Deposits at a Cylindrical Collector in a Microfluidic Chamber. Environmental Science & Technology, 2010, 44, 9413-9418.	4.6	13
65	Brownian flocculation of negatively charged latex particles with low charge density polycation at various ionic strengths. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 454, 128-134.	2.3	13
66	Novel insight into enhanced recoverability of acidic inhibition to anaerobic digestion with nano-bubble water supplementation. Bioresource Technology, 2021, 326, 124782.	4.8	13
67	Achieving stably enhanced biological phosphorus removal from aerobic granular sludge system via phosphorus rich liquid extraction during anaerobic period. Bioresource Technology, 2022, 346, 126439.	4.8	13
68	Transport behavior and deposition kinetics of humic acid under acidic conditions in porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 417, 230-235.	2.3	12
69	Inhibition of Cationic Polymer-Induced Colloid Flocculation by Polyacrylic Acid. Water (Switzerland), 2018, 10, 1215.	1.2	12
70	Identification of Human P450 Isoforms Involved in the Metabolism of the Antiallergic Drug, Oxatomide, and Its Inhibitory Effect on Enzyme Activity. Biological and Pharmaceutical Bulletin, 2004, 27, 684-690.	0.6	11
71	Effect of Intestinal First-Pass Hydrolysis on the Oral Bioavailability of an Ester Prodrug of Fexofenadine. Journal of Pharmaceutical Sciences, 2012, 101, 3264-3274.	1.6	11
72	Comprehensive Quantitative and Qualitative Liquid Chromatographyâ€“Radioisotopeâ€“Mass Spectrometry Analysis for Safety Testing of Tolbutamide Metabolites Without Standard Samples. Journal of Pharmaceutical Sciences, 2011, 100, 4024-4036.	1.6	10

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73	Yield stress of mixed suspension of silica particles and lysozymes: The effect of zeta potential and adsorbed amount. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123575.	2.3	10
74	Size, orientation, and strength of Na-montmorillonite flocs flowing in a laminar shear flow. Colloid and Polymer Science, 2019, 297, 979-987.	1.0	10
75	Analysis of initial stage of colloidal particles flocculation induced by different degree branching polyelectrolytes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126986.	2.3	10
76	Study on the kinetics of adsorption of poly(ethylene oxide) onto a silica particle using optical tweezers and microfluidics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128691.	2.3	10
77	Sedimentation and electrophoresis of a porous floc and a colloidal particle coated with polyelectrolytes. Current Opinion in Colloid and Interface Science, 2016, 24, 72-78.	3.4	9
78	Adsorption of Poly(acrylic acid) onto Negatively Charged Polystyrene Sulfate Latex Particles by Means of Particle Tracking of Brownian Motion, Electrophoretic Mobility and Fourier Transform Infrared Spectroscopy. Polymer Science - Series A, 2020, 62, 321-329.	0.4	9
79	Initial-Stage Dynamics of Flocculation of Cationic Colloidal Particles Induced by Negatively Charged Polyelectrolytes, Polyelectrolyte Complexes, and Microgels Studied Using Standardized Colloid Mixing. Langmuir, 2020, 36, 8375-8383.	1.6	9
80	Initial stage dynamics of bridging flocculation of polystyrene latex particles with low charge density polycation in a mixing flow near the isoelectric point. Colloid and Polymer Science, 2015, 293, 3585-3593.	1.0	8
81	Effects of nanobubble water supplementation on biomass accumulation during mycelium cultivation of Cordyceps militaris and the antioxidant activities of extracted polysaccharides. Bioresource Technology Reports, 2020, 12, 100600.	1.5	8
82	The possibility of inferring paleoseismicity from paleomagnetic dating of speleothems, western Japan. Tectonophysics, 1994, 230, 241-248.	0.9	7
83	Direct observation on the Brownian coagulation of PSL particles through optical microscope in the regime near critical coagulation concentration (CCC). Journal of Colloid and Interface Science, 2010, 344, 343-347.	5.0	7
84	Evaluation of the Potency of Telaprevir and Its Metabolites as Inhibitors of Renal Organic Cation Transporters, a Potential Mechanism for the Elevation of Serum Creatinine. Drug Metabolism and Pharmacokinetics, 2014, 29, 266-271.	1.1	7
85	Rheology and Sedimentation of Aqueous Suspension of Na-montmorillonite in the Very Dilute Domain. KONA Powder and Particle Journal, 2020, 37, 145-165.	0.9	7
86	On the Yield Stress of Sheared Coagulated Suspensions. Proceedings of Hydraulic Engineering, 2002, 46, 637-640.	0.0	6
87	Duration of initial flocculation stage in the sedimentation of sodium montmorillonite suspension in the semi-dilute regime. Colloid and Polymer Science, 2018, 296, 71-76.	1.0	6
88	Aspects of colloid and interface in the engineering science of soil and water with emphasis on the flocculation behavior of model particles. Paddy and Water Environment, 2019, 17, 203-210.	1.0	6
89	Effect of the concentration of NaCl and cylinder height on the sedimentation of flocculated suspension of Na-montmorillonite in the semi-dilute regime. Paddy and Water Environment, 2020, 18, 309-316.	1.0	6
90	Water retention in sandy substrates modified by crossâ€linked polymeric microgels and their complexes with a linear cationic polymer. Journal of Applied Polymer Science, 2021, 138, 50754.	1.3	6

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91	Inhibitory mechanisms of humic substances and polyacrylic acid during the initial stage of polycation-induced flocculation. Journal of Environmental Chemical Engineering, 2021, 9, 106481.	3.3	6
92	Break-up Strength of Flocs Analyzed Using Orifice Converging Flow. Nihon Reoroji Gakkaishi, 2007, 35, 69-72.	0.2	6
93	Adsorption of Binary Mixture of Highly Positively Charged PTMA5M and Partially Negatively Charged PAA onto PSL Particles Studied by Means of Brownian Motion Particle Tracking and Electrophoresis. Langmuir, 2021, 37, 12204-12212.	1.6	6
94	Heteroaggregation rate coefficients between oppositely charged particles in a mixing flow: Effect of surface charge density and salt concentration. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127795.	2.3	6
95	Sediment Volume of Flocculated Material Studied Using Polystyrene Latex Spheres.. Journal of Chemical Engineering of Japan, 1999, 32, 45-50.	0.3	5
96	Effect of Particle Size on Breakup of Flocs in a Turbulent Flow. Proceedings of Hydraulic Engineering, 2001, 45, 1249-1253.	0.0	4
97	Aggregation of marine organic matter by bubbling. Journal of Oceanography, 2020, 76, 317-326.	0.7	4
98	Shielding behavior of electrokinetic properties of polystyrene latex particle by the adsorption of neutral poly(ethylene oxide). Journal of Colloid and Interface Science, 2022, 626, 930-938.	5.0	4
99	Capillary Diameter Effects on the Apparent Viscosity of the Suspension of Clay Flocs. Nihon Reoroji Gakkaishi, 2004, 32, 277-284.	0.2	3
100	Aggregation Rate of Charged Colloidal Particles in a Shear Flow: Trajectory Analysis Using Non-linear Poisson-Boltzmann Solution. Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	3
101	Effect of mixing intensity on flocculation kinetics of polystyrene latex particles with high-charge density polyelectrolyte at various ionic strengths. Colloid and Polymer Science, 2018, 296, 1945-1951.	1.0	3
102	Breakup and structure of flocs in a turbulent flow. , 1999, , .		2
103	Electrical Double Layers and Colloidal Flocculation. Oleoscience, 2013, 13, 299-307.	0.0	1
104	Container size effects on the validity for the concept of sedimentation turbulence studied using coagulated suspension of Na-montmorillonite in the semi-dilute regime. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 630, 127567.	2.3	1
105	Effect of Diameter of Primary Particles on the Extension of the Rate Theory of Rapid Brownian Coagulation via Excluded Volume. Kagaku Kogaku Ronbunshu, 2009, 35, 70-74.	0.1	1
106	Sedimentation and Electrophoresis of Porous Colloids. Oleoscience, 2008, 8, 55-61.	0.0	1
107	Hydrodynamic and Electrokinetic Properties of Colloidal Complexes Determined by Brownian Motion Analysis and Electrophoresis. Bunseki Kagaku, 2012, 61, 87-94.	0.1	0
108	Preface. Advances in Colloid and Interface Science, 2015, 226, 1.	7.0	0

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109	Determination of the Rate of Salt-Induced Rapid Coagulation of Polystyrene Latex Particles in Turbulent Flow Using Small Stirred Vessel. Colloids and Interfaces, 2019, 3, 5.	0.9	0
110	Analysis of Polyelectrolyte Layers Adsorbed on Colloidal Particles by Soft Particle Electrophoresis Theory. Kagaku Kogaku Ronbunshu, 2009, 35, 141-144.	0.1	0
111	Rheological Properties of Flocculated Colloidal Suspension. Journal of the Society of Powder Technology, Japan, 2010, 47, 230-239.	0.0	0
112	EQUILIBRIUM SORPTION OF p-NITROANILINE FROM THE SATURATED VAPOR PHASE ON PET FILM AND p-NA ACCESSIBILITY. Journal of Fiber Science and Technology, 1985, 41, T418-T423.	0.0	0
113	Bio-Environmental Fluid Physics Considered by the Analysis of the Collision Process between Nano-Particles. Trends in the Sciences, 2016, 21, 2_43-2_48.	0.0	0
114	Effects of Polymer Branching Structure on the Hydrodynamic Adsorbed Layer Thickness Formed on Colloidal Particles. Journal of Chemical Engineering of Japan, 2022, 55, 148-153.	0.3	0