

# Yasuhisa Adachi

## List of Publications by Year in descending order

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114  
papers

6,868  
citations

109137

35  
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60497

81  
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119  
all docs

119  
docs citations

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times ranked

6892  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heteroaggregation rate coefficients between oppositely charged particles in a mixing flow: Effect of surface charge density and salt concentration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 632, 127795.	2.3	6
2	Achieving stably enhanced biological phosphorus removal from aerobic granular sludge system via phosphorus rich liquid extraction during anaerobic period. <i>Bioresource Technology</i> , 2022, 346, 126439.	4.8	13
3	Effects of Polymer Branching Structure on the Hydrodynamic Adsorbed Layer Thickness Formed on Colloidal Particles. <i>Journal of Chemical Engineering of Japan</i> , 2022, 55, 148-153.	0.3	0
4	Study on the kinetics of adsorption of poly(ethylene oxide) onto a silica particle using optical tweezers and microfluidics. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 642, 128691.	2.3	10
5	Shielding behavior of electrokinetic properties of polystyrene latex particle by the adsorption of neutral poly(ethylene oxide). <i>Journal of Colloid and Interface Science</i> , 2022, 626, 930-938.	5.0	4
6	Ionic response of algal-bacterial granular sludge system during biological phosphorus removal from wastewater. <i>Chemosphere</i> , 2021, 264, 128534.	4.2	41
7	Water retention in sandy substrates modified by cross-linked polymeric microgels and their complexes with a linear cationic polymer. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50754.	1.3	6
8	Novel insight into enhanced recoverability of acidic inhibition to anaerobic digestion with nano-bubble water supplementation. <i>Bioresource Technology</i> , 2021, 326, 124782.	4.8	13
9	Fabrication, Microstructure and Colloidal Stability of Humic Acids Loaded Fe <sub>3</sub> O <sub>4</sub> /APTES Nanosorbents for Environmental Applications. <i>Nanomaterials</i> , 2021, 11, 1418.	1.9	16
10	Alleviation of ammonia inhibition via nano-bubble water supplementation during anaerobic digestion of ammonia-rich swine manure: Buffering capacity promotion and methane production enhancement. <i>Bioresource Technology</i> , 2021, 333, 125131.	4.8	21
11	Analysis of initial stage of colloidal particles flocculation induced by different degree branching polyelectrolytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 625, 126986.	2.3	10
12	Inhibitory mechanisms of humic substances and polyacrylic acid during the initial stage of polycation-induced flocculation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106481.	3.3	6
13	Container size effects on the validity for the concept of sedimentation turbulence studied using coagulated suspension of Na-montmorillonite in the semi-dilute regime. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 630, 127567.	2.3	1
14	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. <i>Langmuir</i> , 2021, 37, 12204-12212.	1.6	6
15	Rapid establishment and stable performance of a new algal-bacterial granule system from conventional bacterial aerobic granular sludge and preliminary analysis of mechanisms involved. <i>Journal of Water Process Engineering</i> , 2020, 34, 101073.	2.6	41
16	Adsorption characteristics of beta-lactam cefixime onto nanosilica fabricated from rice HUSK with surface modification by polyelectrolyte. <i>Journal of Molecular Liquids</i> , 2020, 298, 111981.	2.3	59
17	Effect of the concentration of NaCl and cylinder height on the sedimentation of flocculated suspension of Na-montmorillonite in the semi-dilute regime. <i>Paddy and Water Environment</i> , 2020, 18, 309-316.	1.0	6
18	Relaxation of adsorbed layer thickness and electrophoresis of polystyrene latex particles after overshooting of polyelectrolytes with different charge density. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 603, 125208.	2.3	16

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19	Behavior of algal-bacterial granular sludge in a novel closed photo-sequencing batch reactor under no external O <sub>2</sub> supply. <i>Bioresource Technology</i> , 2020, 318, 124190.	4.8	36
20	Effect of nano-bubble water on high solid anaerobic digestion of pig manure: Focus on digestion stability, methanogenesis performance and related mechanisms. <i>Bioresource Technology</i> , 2020, 315, 123793.	4.8	22
21	Coupling biogas recirculation with FeCl <sub>3</sub> addition in anaerobic digestion system for simultaneous biogas upgrading, phosphorus conservation and sludge conditioning. <i>Bioresource Technology</i> , 2020, 315, 123811.	4.8	22
22	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. <i>Polymer Science - Series A</i> , 2020, 62, 321-329.	0.4	9
23	Effects of nanobubble water supplementation on biomass accumulation during mycelium cultivation of <i>Cordyceps militaris</i> and the antioxidant activities of extracted polysaccharides. <i>Bioresource Technology Reports</i> , 2020, 12, 100600.	1.5	8
24	Supplementation of O <sub>2</sub> -containing gas nanobubble water to enhance methane production from anaerobic digestion of cellulose. <i>Chemical Engineering Journal</i> , 2020, 398, 125652.	6.6	42
25	Initial-Stage Dynamics of Flocculation of Cationic Colloidal Particles Induced by Negatively Charged Polyelectrolytes, Polyelectrolyte Complexes, and Microgels Studied Using Standardized Colloid Mixing. <i>Langmuir</i> , 2020, 36, 8375-8383.	1.6	9
26	Rheology and Sedimentation of Aqueous Suspension of Na-montmorillonite in the Very Dilute Domain. <i>KONA Powder and Particle Journal</i> , 2020, 37, 145-165.	0.9	7
27	Aggregation of marine organic matter by bubbling. <i>Journal of Oceanography</i> , 2020, 76, 317-326.	0.7	4
28	Yield stress of mixed suspension of silica particles and lysozymes: The effect of zeta potential and adsorbed amount. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 578, 123575.	2.3	10
29	Size, orientation, and strength of Na-montmorillonite flocs flowing in a laminar shear flow. <i>Colloid and Polymer Science</i> , 2019, 297, 979-987.	1.0	10
30	Enhanced hydrolysis of waste activated sludge for methane production via anaerobic digestion under N <sub>2</sub> -nanobubble water addition. <i>Science of the Total Environment</i> , 2019, 693, 133524.	3.9	44
31	A novel anaerobic digestion system coupling biogas recirculation with MgCl <sub>2</sub> addition for multipurpose sewage sludge treatment. <i>Journal of Cleaner Production</i> , 2019, 230, 499-507.	4.6	32
32	Rapid granulation of aerobic granular sludge: A mini review on operation strategies and comparative analysis. <i>Bioresource Technology Reports</i> , 2019, 7, 100206.	1.5	23
33	Granulation of activated sludge using butyrate and valerate as additional carbon source and granular phosphorus removal capacity during wastewater treatment. <i>Bioresource Technology</i> , 2019, 282, 269-274.	4.8	38
34	Determination of the Rate of Salt-Induced Rapid Coagulation of Polystyrene Latex Particles in Turbulent Flow Using Small Stirred Vessel. <i>Colloids and Interfaces</i> , 2019, 3, 5.	0.9	0
35	Aspects of colloid and interface in the engineering science of soil and water with emphasis on the flocculation behavior of model particles. <i>Paddy and Water Environment</i> , 2019, 17, 203-210.	1.0	6
36	Stability and performance of algal-bacterial granular sludge in shaking photo-sequencing batch reactors with special focus on phosphorus accumulation. <i>Bioresource Technology</i> , 2019, 280, 497-501.	4.8	54

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37	Effects of nanobubble water on the growth of <i>Lactobacillus acidophilus</i> 1028 and its lactic acid production. RSC Advances, 2019, 9, 30760-30767.	1.7	31
38	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
39	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
40	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
41	Inhibition of Cationic Polymer-Induced Colloid Flocculation by Polyacrylic Acid. Water (Switzerland), 2018, 10, 1215.	1.2	12
42	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
43	Adsorptive removal of ammonium ion from aqueous solution using surfactant-modified alumina. Environmental Chemistry, 2017, 14, 327.	0.7	55
44	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
45	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
46	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
47	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
48	Preface. Advances in Colloid and Interface Science, 2015, 226, 1.	7.0	0
49	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
50	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
51	Adsorption characteristics of anionic azo dye onto large $\alpha$ -alumina beads. Colloid and Polymer Science, 2015, 293, 1877-1886.	1.0	51
52	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
53	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
54	Adsorption of Polyanion onto Large Alpha Alumina Beads with Variably Charged Surface. Advances in Physical Chemistry, 2014, 2014, 1-9.	2.0	32

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55	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. <i>Drug Metabolism and Pharmacokinetics</i> , 2014, 29, 266-271.	1.1	7
56	Brownian flocculation of negatively charged latex particles with low charge density polycation at various ionic strengths. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 454, 128-134.	2.3	13
57	Kinetics of Brownian flocculation of polystyrene latex by cationic polyelectrolyte as a function of ionic strength. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 440, 155-160.	2.3	17
58	Aggregation Rate of Charged Colloidal Particles in a Shear Flow: Trajectory Analysis Using Non-linear Poisson-Boltzmann Solution. <i>Journal of Japan Society of Civil Engineers Ser A2 (Applied Mechanics)</i> Tj ETQq0 0 0 rg0II/Overlαk 10 Tf 50		
59	Interfacial characterization of $\gamma$ -alumina with small surface area by streaming potential and chromatography. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 148-157.	2.3	28
60	Coagulation and charging of latex particles in the presence of imogolite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 435, 139-146.	2.3	28
61	Vascularized and functional human liver from an iPSC-derived organ bud transplant. <i>Nature</i> , 2013, 499, 481-484.	13.7	1,689
62	Transport behavior and deposition kinetics of humic acid under acidic conditions in porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 417, 230-235.	2.3	12
63	Electrical Double Layers and Colloidal Flocculation. <i>Oleoscience</i> , 2013, 13, 299-307.	0.0	1
64	Hydrodynamic and Electrokinetic Properties of Colloidal Complexes Determined by Brownian Motion Analysis and Electrophoresis. <i>Bunseki Kagaku</i> , 2012, 61, 87-94.	0.1	0
65	Structure of Colloidal Floccs in relation to the Dynamic Properties of Unstable Suspension. <i>International Journal of Polymer Science</i> , 2012, 2012, 1-14.	1.2	30
66	Effect of Intestinal First-Pass Hydrolysis on the Oral Bioavailability of an Ester Prodrug of Fexofenadine. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 3264-3274.	1.6	11
67	Cluster- $\leftrightarrow$ cluster aggregation simulation in a concentrated suspension. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 34-41.	5.0	17
68	Comprehensive Quantitative and Qualitative Liquid Chromatography- $\leftrightarrow$ Radioisotope- $\leftrightarrow$ Mass Spectrometry Analysis for Safety Testing of Tolbutamide Metabolites Without Standard Samples. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 4024-4036.	1.6	10
69	Transient behavior of adsorbing/adsorbed polyelectrolytes on the surface of colloidal particles studied by means of trajectory analysis of Brownian motion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 376, 9-13.	2.3	19
70	Organic Anion Transporter 3 Mediates the Efflux Transport of an Amphipathic Organic Anion, Dehydroepiandrosterone Sulfate, across the Blood-Brain Barrier in Mice. <i>Drug Metabolism and Disposition</i> , 2011, 39, 814-819.	1.7	44
71	In Vitro Evaluation of Cytochrome P450 and Glucuronidation Activities in Hepatocytes Isolated from Liver-Humanized Mice. <i>Drug Metabolism and Pharmacokinetics</i> , 2010, 25, 539-550.	1.1	65
72	Direct observation on the Brownian coagulation of PSL particles through optical microscope in the regime near critical coagulation concentration (CCC). <i>Journal of Colloid and Interface Science</i> , 2010, 344, 343-347.	5.0	7

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73	Morphology and Breaking of Latex Particle Deposits at a Cylindrical Collector in a Microfluidic Chamber. <i>Environmental Science &amp; Technology</i> , 2010, 44, 9413-9418.	4.6	13
74	Rheological Properties of Flocculated Colloidal Suspension. <i>Journal of the Society of Powder Technology, Japan</i> , 2010, 47, 230-239.	0.0	0
75	Effect of Diameter of Primary Particles on the Extension of the Rate Theory of Rapid Brownian Coagulation via Excluded Volume. <i>Kagaku Kogaku Ronbunshu</i> , 2009, 35, 70-74.	0.1	1
76	Analysis of Polyelectrolyte Layers Adsorbed on Colloidal Particles by Soft Particle Electrophoresis Theory. <i>Kagaku Kogaku Ronbunshu</i> , 2009, 35, 141-144.	0.1	0
77	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. <i>Drug Metabolism and Disposition</i> , 2008, 36, 1030-1038.	1.7	17
78	Sedimentation and Electrophoresis of Porous Colloids. <i>Oleoscience</i> , 2008, 8, 55-61.	0.0	1
79	Multiple Human Isoforms of Drug Transporters Contribute to the Hepatic and Renal Transport of Olmesartan, a Selective Antagonist of the Angiotensin II AT1-Receptor. <i>Drug Metabolism and Disposition</i> , 2007, 35, 2166-2176.	1.7	122
80	Break-up Strength of Floccs Analyzed Using Orifice Converging Flow. <i>Nihon Reoroji Gakkaishi</i> , 2007, 35, 69-72.	0.2	6
81	Effect of floc structure on the rate of Brownian coagulation. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 115-118.	5.0	33
82	INVOLVEMENT OF TRANSPORTERS IN THE HEPATIC UPTAKE AND BILIARY EXCRETION OF VALSARTAN, A SELECTIVE ANTAGONIST OF THE ANGIOTENSIN II AT1-RECEPTOR, IN HUMANS. <i>Drug Metabolism and Disposition</i> , 2006, 34, 1247-1254.	1.7	190
83	Capture efficiency and coagulation rate of polystyrene latex particles in a laminar shear flow: Effects of ionic strength and shear rate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 266, 150-154.	2.3	22
84	53BP1 exchanges slowly at the sites of DNA damage and appears to require RNA for its association with chromatin. <i>Journal of Cell Science</i> , 2005, 118, 2043-2055.	1.2	116
85	Role of Breast Cancer Resistance Protein (Bcrp1/Abcg2) in the Extrusion of Glucuronide and Sulfate Conjugates from Enterocytes to Intestinal Lumen. <i>Molecular Pharmacology</i> , 2005, 67, 923-928.	1.0	79
86	Capillary Diameter Effects on the Apparent Viscosity of the Suspension of Clay Floccs. <i>Nihon Reoroji Gakkaishi</i> , 2004, 32, 277-284.	0.2	3
87	IN VITRO AND IN VIVO CORRELATION OF THE INHIBITORY EFFECT OF CYCLOSPORIN A ON THE TRANSPORTER-MEDIATED HEPATIC UPTAKE OF CERIVASTATIN IN RATS. <i>Drug Metabolism and Disposition</i> , 2004, 32, 1468-1475.	1.7	35
88	Colloid stability and coagulation rate of polystyrene latex particles in a turbulent flow. <i>International Journal of Mineral Processing</i> , 2004, 73, 177-181.	2.6	24
89	Effect of floc structure on the rate of shear coagulation. <i>Journal of Colloid and Interface Science</i> , 2004, 272, 345-351.	5.0	30
90	Identification of Human P450 Isoforms Involved in the Metabolism of the Antiallergic Drug, Oxatomide, and Its Inhibitory Effect on Enzyme Activity. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 684-690.	0.6	11

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91	Quantitative evaluation of the function of small intestinal P-glycoprotein: comparative studies between in situ and in vitro. <i>Pharmaceutical Research</i> , 2003, 20, 1163-1169.	1.7	70
92	On the Yield Stress of Sheared Coagulated Suspensions. <i>Proceedings of Hydraulic Engineering</i> , 2002, 46, 637-640.	0.0	6
93	Settling velocity of a sodium montmorillonite floc under high ionic strength. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 196, 87-91.	2.3	17
94	Kinetochore localisation of the DNA damage response component 53BP1 during mitosis. <i>Journal of Cell Science</i> , 2002, 115, 71-79.	1.2	80
95	Effect of Particle Size on Breakup of Floccs in a Turbulent Flow. <i>Proceedings of Hydraulic Engineering</i> , 2001, 45, 1249-1253.	0.0	4
96	Comparative studies on in vitro methods for evaluating in vivo function of MDR1 P-glycoprotein. <i>Pharmaceutical Research</i> , 2001, 18, 1660-1668.	1.7	183
97	Phosphorylation and Rapid Relocalization of 53BP1 to Nuclear Foci upon DNA Damage. <i>Molecular and Cellular Biology</i> , 2001, 21, 1719-1729.	1.1	326
98	On the Steady Shear Viscosity of Coagulated Suspensions.. <i>Nihon Reoroji Gakkaishi</i> , 2000, 28, 143-144.	0.2	25
99	Application of a scaling law to the analysis of allophane aggregates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 151, 43-47.	2.3	20
100	Breakup of Fractal Floccs in a Turbulent Flow. <i>Langmuir</i> , 1999, 15, 4351-4356.	1.6	93
101	Breakup and structure of floccs in a turbulent flow. , 1999, , .		2
102	Sediment Volume of Flocculated Material Studied Using Polystyrene Latex Spheres.. <i>Journal of Chemical Engineering of Japan</i> , 1999, 32, 45-50.	0.3	5
103	Settling velocity of an aluminium-kaolinite floc. <i>Water Research</i> , 1997, 31, 449-454.	5.3	51
104	A globular complex formation by Nda1 and the other five members of the MCM protein family in fission yeast. <i>Genes To Cells</i> , 1997, 2, 467-479.	0.5	126
105	Sedimentation of a polystyrene latex floc. <i>Powder Technology</i> , 1994, 78, 129-135.	2.1	15
106	The possibility of inferring paleoseismicity from paleomagnetic dating of speleothems, western Japan. <i>Tectonophysics</i> , 1994, 230, 241-248.	0.9	7
107	Flotation and sedimentation of a single microcystis floc collected from surface bloom. <i>Water Research</i> , 1993, 27, 979-983.	5.3	53
108	Scaffold-associated regions: cis-acting determinants of chromatin structural loops and functional domains. <i>Current Opinion in Genetics and Development</i> , 1992, 2, 275-285.	1.5	325

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109	Chromosome assembly in vitro: Topoisomerase II is required for condensation. <i>Cell</i> , 1991, 64, 137-148.	13.5	402
110	Geometrical structure of a floc. <i>Journal of Colloid and Interface Science</i> , 1990, 135, 374-384.	5.0	49
111	DNA topoisomerase II is required for condensation and separation of mitotic chromosomes in <i>S. pombe</i> . <i>Cell</i> , 1987, 50, 917-925.	13.5	693
112	Chromosome walking shows a highly homologous repetitive sequence present in all the centromere regions of fission yeast. <i>EMBO Journal</i> , 1986, 5, 1011-1021.	3.5	182
113	EQUILIBRIUM SORPTION OF p-NITROANILINE FROM THE SATURATED VAPOR PHASE ON PET FILM AND p-NA ACCESSIBILITY. <i>Journal of Fiber Science and Technology</i> , 1985, 41, T418-T423.	0.0	0
114	Identification of the pleiotropic cell division cycle gene NDA2 as one of two different $\hat{1}\pm$ -tubulin genes in <i>schizosaccharomyces pombe</i> . <i>Cell</i> , 1984, 37, 233-241.	13.5	235