Fumio Oosawa

List of Publications by Year
in descending order

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37 papers	6,369 citations	430874 18 h-index	345221 36 g-index
38 all docs	38 docs citations	38 times ranked	3712 citing authors

#	Article	IF	Citations
1	On Interaction between Two Bodies Immersed in a Solution of Macromolecules. Journal of Chemical Physics, 1954, 22, 1255-1256.	3.0	2,487
2	Interaction between particles suspended in solutions of macromolecules. Journal of Polymer Science, 1958, 33, 183-192.	0.9	1,754
3	Direct observation of motion of single F-actin filaments in the presence of myosin. Nature, 1984, 307, 58-60.	27.8	506
4	Sliding distance of actin filament induced by a myosin crossbridge during one ATP hydrolysis cycle. Nature, 1985, 316, 366-369.	27.8	276
5	Interaction between parallel rodlike macroions. Biopolymers, 1968, 6, 1633-1647.	2.4	193
6	Counterion fluctuation and dielectric dispersion in linear polyelectrolytes. Biopolymers, 1970, 9, 677-688.	2.4	191
7	G-F transformation of actin as a fibrous condensation. Journal of Polymer Science, 1959, 37, 323-336.	0.9	150
8	A simple theory of thermodynamic properties of polyelectrolyte solutions. Journal of Polymer Science, 1957, 23, 421-430.	0.9	145
9	Structure of Fâ€“actin solutions. Journal of Polymer Science, 1960, 44, 51-69.	0.9	84
10	Extraction of an actin-like protein from the plasmodium of a myxomycete and its interaction with myosin a from rabbit striated muscle. Journal of Cellular Physiology, 1966, 68, 197-202.	4.1	80
11	The effect of temperature on the equilibrium state of actin solutions. Journal of Polymer Science, 1960, 44, 35-49.	0.9	63
12	Temperature-Sensitive Behavior ofParamecium caudatum. Journal of Protozoology, 1977, 24, 575-580.	0.8	62
13	Actinâ€“actin bond strength and the conformational change of F-actin1. Biorheology, 1977, 14, 11-19.	0.4	61
14	Interaction between Rod-like Polyelectrolytes. Journal of the Physical Society of Japan, 1960, 15, 896-905.	1.6	45
15	Dielectric properties of polyelectrolytes. II. A theory of dielectric increment due to ion fluctuation by a matrix method. Biopolymers, 1972, 11, 347-359.	2.4	42
16	Mechanism of Flagellar Motor Rotation in Bacteria. Journal of the Physical Society of Japan, 1982, 51, 631-641.	1.6	35
17	Theory of mechanochemical systems. Journal of Polymer Science, 1954, 13, 499-510.	0.9	22
18	Tritium-hydrogen exchange of poly-L-glutamic acid in aqueous solutions. Biopolymers, 1965, 3, 555-566.	2.4	20

#	Article	IF	Citations
19	A theory on the effect of low molecular salts on the dissociation of linear polyacids. Biopolymers, 1968, 6, 135-144.	2.4	19
20	A theory on the effect of low molecular salts on the conformation of linear polyions. Biopolymers, 1968, 6, 145-158.	2.4	18
21	Acceleration of Paramecium swimming velocity is effected by various cations.. Cell Structure and Function, 1983, 8, 77-84.	1.1	17
22	Fibrous and globular aggregations of charged macromolecules. Journal of Polymer Science, 1957, 26, 29-45.	0.9	14
23	A Loose Coupling Mechanism of Synthesis of ATP by Proton Flux in the Molecular Machine of Living Cells. Journal of the Physical Society of Japan, 1984, 53, 1575-1579.	1.6	14
24	Effect of Myosin on Conformational Changes of F-Actin in Thin Filament in vivo Induced by Calcium Ions. FEBS Journal, 1975, 56, 547-556.	0.2	11
25	Response ofChlamydomonasto Temperature Change. Journal of Protozoology, 1975, 22, 499-501.	0.8	10
26	The history of the birth of the Asakuraâ€“Oosawa theory. Journal of Chemical Physics, 2021, 155, 084104.	3.0	8
27	Deformation of networks by detachment and formation of crosslinks. Journal of Polymer Science, 1958, 32, 229-246.	0.9	7
28	Thermodynamic properties of rodlike polyelectrolyte solutions in the presence of salts. Journal of Polymer Science: Part A, General Papers, 1963, 1, 1501-1508.	0.4	7
29	Behavioral Adaptation of Paramecium caudatum to Environmental Temperature. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1982, 58, 213-217.	3.8	7
30	Thermodynamic measurements of actin polymerization with various cation species. Cytoskeleton, 2017, 74, 465-471.	2.0	5
31	FIELD FLUCTUATION IN IONIC SOLUTIONS AND ITS BIOLOGICAL SIGNIFICANCE. Annals of the New York Academy of Sciences, 1977, 303, 38-46.	3.8	4
32	A Rotary Model of F₁F₀ ATPase based on a Loose Coupling Mechanism. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1984, 60, 161-164.	3.8	3
33	Discovery of myosin I and Pollard-san. Biophysical Reviews, 2018, 10, 1481-1482.	3.2	3
34	My various thoughts on actin. Biophysics and Physicobiology, 2018, 15, 151-158.	1.0	3
35	Motibity of Living Systems. Seibutsu Butsuri, 1970, 10, 55-69.	0.1	1
36	The phenomenological study of the assembly of muscle and non-muscle actin; A history in Japan. BioEssays, 1987, 7, 182-184.	2.5	0

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37	ç‹åŽç¸®ã•ç‹è›‹ç™½ï¼2ã®ç‰©ç†åŒ–å¦. Seibutsu Butsuri, 1961, 1, 24-34.	0.1	0