

Fumio Oosawa

List of Publications by Year in descending order

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Version: 2024-02-01

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	The history of the birth of the Asakura-Oosawa theory. <i>Journal of Chemical Physics</i> , 2021, 155, 084104.	3.0	8
2	Discovery of myosin I and Pollard-san. <i>Biophysical Reviews</i> , 2018, 10, 1481-1482.	3.2	3
3	My various thoughts on actin. <i>Biophysics and Physicobiology</i> , 2018, 15, 151-158.	1.0	3
4	Thermodynamic measurements of actin polymerization with various cation species. <i>Cytoskeleton</i> , 2017, 74, 465-471.	2.0	5
5	The phenomenological study of the assembly of muscle and non-muscle actin; A history in Japan. <i>BioEssays</i> , 1987, 7, 182-184.	2.5	0
6	Sliding distance of actin filament induced by a myosin crossbridge during one ATP hydrolysis cycle. <i>Nature</i> , 1985, 316, 366-369.	27.8	276
7	Direct observation of motion of single F-actin filaments in the presence of myosin. <i>Nature</i> , 1984, 307, 58-60.	27.8	506
8	A Rotary Model of F-actin and Myosin ATPase based on a Loose Coupling Mechanism. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1984, 60, 161-164.	3.8	3
9	A Loose Coupling Mechanism of Synthesis of ATP by Proton Flux in the Molecular Machine of Living Cells. <i>Journal of the Physical Society of Japan</i> , 1984, 53, 1575-1579.	1.6	14
10	Acceleration of Paramecium swimming velocity is effected by various cations.. <i>Cell Structure and Function</i> , 1983, 8, 77-84.	1.1	17
11	Mechanism of Flagellar Motor Rotation in Bacteria. <i>Journal of the Physical Society of Japan</i> , 1982, 51, 631-641.	1.6	35
12	Behavioral Adaptation of Paramecium caudatum to Environmental Temperature. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1982, 58, 213-217.	3.8	7
13	Actin-actin bond strength and the conformational change of F-actin1. <i>Biorheology</i> , 1977, 14, 11-19.	0.4	61
14	Temperature-Sensitive Behavior of Paramecium caudatum. <i>Journal of Protozoology</i> , 1977, 24, 575-580.	0.8	62
15	FIELD FLUCTUATION IN IONIC SOLUTIONS AND ITS BIOLOGICAL SIGNIFICANCE. <i>Annals of the New York Academy of Sciences</i> , 1977, 303, 38-46.	3.8	4
16	Effect of Myosin on Conformational Changes of F-Actin in Thin Filament in vivo Induced by Calcium Ions. <i>FEBS Journal</i> , 1975, 56, 547-556.	0.2	11
17	Response of Chlamydomonas to Temperature Change. <i>Journal of Protozoology</i> , 1975, 22, 499-501.	0.8	10
18	Dielectric properties of polyelectrolytes. II. A theory of dielectric increment due to ion fluctuation by a matrix method. <i>Biopolymers</i> , 1972, 11, 347-359.	2.4	42

#	ARTICLE	IF	CITATIONS
19	Counterion fluctuation and dielectric dispersion in linear polyelectrolytes. <i>Biopolymers</i> , 1970, 9, 677-688.	2.4	191
20	Motility of Living Systems. <i>Seibutsu Butsuri</i> , 1970, 10, 55-69.	0.1	1
21	A theory on the effect of low molecular salts on the dissociation of linear polyacids. <i>Biopolymers</i> , 1968, 6, 135-144.	2.4	19
22	A theory on the effect of low molecular salts on the conformation of linear polyions. <i>Biopolymers</i> , 1968, 6, 145-158.	2.4	18
23	Interaction between parallel rodlike macroions. <i>Biopolymers</i> , 1968, 6, 1633-1647.	2.4	193
24	Extraction of an actin-like protein from the plasmodium of a myxomycete and its interaction with myosin a from rabbit striated muscle. <i>Journal of Cellular Physiology</i> , 1966, 68, 197-202.	4.1	80
25	Tritium-hydrogen exchange of poly-L-glutamic acid in aqueous solutions. <i>Biopolymers</i> , 1965, 3, 555-566.	2.4	20
26	Thermodynamic properties of rodlike polyelectrolyte solutions in the presence of salts. <i>Journal of Polymer Science: Part A, General Papers</i> , 1963, 1, 1501-1508.	0.4	7
27	ç<âžžç, @ã<ç<è><ç™1/2ã@ç%o ©ç†â€—â‡. <i>Seibutsu Butsuri</i> , 1961, 1, 24-34.	0.1	0
28	The effect of temperature on the equilibrium state of actin solutions. <i>Journal of Polymer Science</i> , 1960, 44, 35-49.	0.9	63
29	Interaction between Rod-like Polyelectrolytes. <i>Journal of the Physical Society of Japan</i> , 1960, 15, 896-905.	1.6	45
30	Structure of Fâ€“actin solutions. <i>Journal of Polymer Science</i> , 1960, 44, 51-69.	0.9	84
31	G-F transformation of actin as a fibrous condensation. <i>Journal of Polymer Science</i> , 1959, 37, 323-336.	0.9	150
32	Deformation of networks by detachment and formation of crosslinks. <i>Journal of Polymer Science</i> , 1958, 32, 229-246.	0.9	7
33	Interaction between particles suspended in solutions of macromolecules. <i>Journal of Polymer Science</i> , 1958, 33, 183-192.	0.9	1,754
34	A simple theory of thermodynamic properties of polyelectrolyte solutions. <i>Journal of Polymer Science</i> , 1957, 23, 421-430.	0.9	145
35	Fibrous and globular aggregations of charged macromolecules. <i>Journal of Polymer Science</i> , 1957, 26, 29-45.	0.9	14
36	Theory of mechanochemical systems. <i>Journal of Polymer Science</i> , 1954, 13, 499-510.	0.9	22

#	ARTICLE	IF	CITATIONS
37	On Interaction between Two Bodies Immersed in a Solution of Macromolecules. Journal of Chemical Physics, 1954, 22, 1255-1256.	3.0	2,487