

Vladimir I Gelfand

List of Publications by Year in descending order

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133
papers

9,739
citations

38660

50
h-index

39575

94
g-index

171
all docs

171
docs citations

171
times ranked

7591
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinesin and Dynein Move a Peroxisome in Vivo: A Tug-of-War or Coordinated Movement?. <i>Science</i> , 2005, 308, 1469-1472.	6.0	563
2	Role of Actin in Anchoring Postsynaptic Receptors in Cultured Hippocampal Neurons: Differential Attachment of NMDA versus AMPA Receptors. <i>Journal of Neuroscience</i> , 1998, 18, 2423-2436.	1.7	518
3	Small-molecule inhibitors of the AAA+ ATPase motor cytoplasmic dynein. <i>Nature</i> , 2012, 484, 125-129.	13.7	342
4	Interactions and regulation of molecular motors in <i>Xenopus</i> melanophores. <i>Journal of Cell Biology</i> , 2002, 156, 855-865.	2.3	284
5	Dynactin is required for bidirectional organelle transport. <i>Journal of Cell Biology</i> , 2003, 160, 297-301.	2.3	281
6	Myosin cooperates with microtubule motors during organelle transport in melanophores. <i>Current Biology</i> , 1998, 8, 161-164.	1.8	240
7	Postsynaptic Scaffolds of Excitatory and Inhibitory Synapses in Hippocampal Neurons: Maintenance of Core Components Independent of Actin Filaments and Microtubules. <i>Journal of Neuroscience</i> , 2000, 20, 4545-4554.	1.7	217
8	Coalignment of vimentin intermediate filaments with microtubules depends on kinesin. <i>Nature</i> , 1991, 353, 445-448.	13.7	215
9	Antibodies to the kinesin motor domain and CENP-E inhibit microtubule depolymerization-dependent motion of chromosomes in vitro.. <i>Journal of Cell Biology</i> , 1995, 128, 107-115.	2.3	214
10	Microtubule Dynamics: Mechanism, Regulation, and Function. <i>Annual Review of Cell Biology</i> , 1991, 7, 93-116.	26.0	213
11	Regulated bidirectional motility of melanophore pigment granules along microtubules in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 3720-3725.	3.3	212
12	Opposite-polarity motors activate one another to trigger cargo transport in live cells. <i>Journal of Cell Biology</i> , 2009, 187, 1071-1082.	2.3	203
13	Bovine brain kinesin is a microtubule-activated ATPase.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986, 83, 8530-8534.	3.3	199
14	Organelle Transport along Microtubules in <i>Xenopus</i> Melanophores: Evidence for Cooperation between Multiple Motors. <i>Biophysical Journal</i> , 2006, 90, 318-327.	0.2	184
15	Heterotrimeric Kinesin II Is the Microtubule Motor Protein Responsible for Pigment Dispersion in <i>Xenopus</i> Melanophores. <i>Journal of Cell Biology</i> , 1998, 143, 1547-1558.	2.3	175
16	Motor-cargo interactions: the key to transport specificity. <i>Trends in Cell Biology</i> , 2002, 12, 21-27.	3.6	174
17	Membrane trafficking, organelle transport, and the cytoskeleton. <i>Current Opinion in Cell Biology</i> , 2000, 12, 57-62.	2.6	173
18	The quaternary structure of bovine brain kinesin.. <i>EMBO Journal</i> , 1988, 7, 353-356.	3.5	167

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19	Kinesin is responsible for centrifugal movement of pigment granules in melanophores.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 4956-4960.	3.3	167
20	Microtubule-Based Transport and the Distribution, Tethering, and Organization of Organelles. Cold Spring Harbor Perspectives in Biology, 2017, 9, a025817.	2.3	167
21	Microtubule-dependent control of cell shape and pseudopodial activity is inhibited by the antibody to kinesin motor domain.. Journal of Cell Biology, 1993, 123, 1811-1820.	2.3	159
22	Initial Neurite Outgrowth in Drosophila Neurons Is Driven by Kinesin-Powered Microtubule Sliding. Current Biology, 2013, 23, 1018-1023.	1.8	157
23	Pigment Cells: A Model for the Study of Organelle Transport. Annual Review of Cell and Developmental Biology, 2003, 19, 469-491.	4.0	153
24	Transport of Drosophila fragile X mental retardation protein-containing ribonucleoprotein granules by kinesin-1 and cytoplasmic dynein. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17428-17433.	3.3	151
25	Cell Cycle Regulation of Myosin-V by Calcium/Calmodulin-Dependent Protein Kinase II. Science, 2001, 293, 1317-1320.	6.0	141
26	The role of microtubule movement in bidirectional organelle transport. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10011-10016.	3.3	131
27	Regulation of Melanosome Movement in the Cell Cycle by Reversible Association with Myosin V. Journal of Cell Biology, 1999, 146, 1265-1276.	2.3	125
28	Microtubule binding by dynactin is required for microtubule organization but not cargo transport. Journal of Cell Biology, 2007, 176, 641-651.	2.3	124
29	Kinesin-1 heavy chain mediates microtubule sliding to drive changes in cell shape. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12151-12156.	3.3	119
30	The Microtubule-Binding Protein Ensconsin Is an Essential Cofactor of Kinesin-1. Current Biology, 2013, 23, 317-322.	1.8	119
31	Vimentin intermediate filaments modulate the motility of mitochondria. Molecular Biology of the Cell, 2011, 22, 2282-2289.	0.9	114
32	Destruction of microfilament bundles in mouse embryo fibroblasts treated with inhibitors of energy metabolism. Experimental Cell Research, 1980, 127, 421-429.	1.2	105
33	Tracking melanosomes inside a cell to study molecular motors and their interaction. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5378-5382.	3.3	99
34	Regulation of Organelle Movement in Melanophores by Protein Kinase A (PKA), Protein Kinase C (PKC), and Protein Phosphatase 2A (PP2A). Journal of Cell Biology, 1998, 142, 803-813.	2.3	89
35	Regulation of mitochondria distribution by RhoA and formins. Journal of Cell Science, 2006, 119, 659-670.	1.2	88
36	Interplay between kinesin-1 and cortical dynein during axonal outgrowth and microtubule organization in Drosophila neurons. ELife, 2015, 4, e10140.	2.8	86

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37	Moonlighting Motors: Kinesin, Dynein, and Cell Polarity. <i>Trends in Cell Biology</i> , 2017, 27, 505-514.	3.6	84
38	Kinesin-powered microtubule sliding initiates axonal regeneration in <i>Drosophila</i> cultured neurons. <i>Molecular Biology of the Cell</i> , 2015, 26, 1296-1307.	0.9	80
39	Microtubule-dependent transport and dynamics of vimentin intermediate filaments. <i>Molecular Biology of the Cell</i> , 2015, 26, 1675-1686.	0.9	80
40	Microtubule dynamics in fish melanophores. <i>Journal of Cell Biology</i> , 1994, 126, 1455-1464.	2.3	75
41	Mitochondrial membrane potential is regulated by vimentin intermediate filaments. <i>FASEB Journal</i> , 2015, 29, 820-827.	0.2	73
42	Role of kinesin-based microtubule sliding in <i>Drosophila</i> nervous system development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4985-94.	3.3	73
43	Microtubule-mediated microtubule sliding by kinesin-1 is essential for normal cytoplasmic streaming in <i>Drosophila</i> oocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4995-5004.	3.3	73
44	Improved Sensitivity for Phosphopeptide Mapping Using Capillary Column HPLC and Microionspray Mass Spectrometry: A Comparative Phosphorylation Site Mapping from Gel-Derived Proteins. <i>Analytical Chemistry</i> , 2002, 74, 3221-3231.	3.2	72
45	Molecular Mechanisms of Pigment Transport in Melanophores. <i>Pigment Cell & Melanoma Research</i> , 1999, 12, 283-294.	4.0	71
46	Microtubule-associated protein MAP1 promotes microtubule assembly in vitro. <i>FEBS Letters</i> , 1981, 135, 241-244.	1.3	63
47	HSP70-related 65 kDa protein of beet yellows closterovirus is a microtubule-binding protein. <i>FEBS Letters</i> , 1992, 304, 12-14.	1.3	63
48	The dynamic properties of intermediate filaments during organelle transport. <i>Journal of Cell Science</i> , 2009, 122, 2914-2923.	1.2	62
49	Microtubules in mouse embryo fibro blasts extracted with Triton X-100. <i>Cell Biology International Reports</i> , 1978, 2, 425-432.	0.7	60
50	Pavarotti/MKLP1 Regulates Microtubule Sliding and Neurite Outgrowth in <i>Drosophila</i> Neurons. <i>Current Biology</i> , 2015, 25, 200-205.	1.8	56
51	Paradigm lost: Milton connects kinesin heavy chain to miro on mitochondria. <i>Journal of Cell Biology</i> , 2006, 173, 459-461.	2.3	55
52	Microtubule-dependent transport of vimentin filament precursors is regulated by actin and by the concerted action of Rho and p21-activated kinases. <i>FASEB Journal</i> , 2014, 28, 2879-2890.	0.2	55
53	Intermediate filament dynamics: What we can see now and why it matters. <i>BioEssays</i> , 2016, 38, 232-243.	1.2	55
54	18 kDa microtubule-associated protein: identification as a new light chain (LC-3) of microtubule-associated protein 1 (MAP-1). <i>FEBS Letters</i> , 1987, 212, 145-148.	1.3	53

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55	The journey of the organelle: teamwork and regulation in intracellular transport. <i>Current Opinion in Cell Biology</i> , 2013, 25, 483-488.	2.6	52
56	Vimentin filament precursors exchange subunits in an ATP-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E3505-14.	3.3	50
57	Purification of high-M r microtubule proteins MAP1 and MAP2. <i>FEBS Letters</i> , 1981, 135, 237-240.	1.3	46
58	Bidirectional intracellular transport: utility and mechanism. <i>Biochemical Society Transactions</i> , 2011, 39, 1126-1130.	1.6	45
59	Role of ATP in the regulation of stability of cytoskeletal structures. <i>Cell Biology International Reports</i> , 1983, 7, 173-187.	0.7	43
60	Regulation of molecular motor proteins. <i>International Review of Cytology</i> , 2001, 204, 179-238.	6.2	43
61	Direct visualization of bipolar myosin filaments in stress fibers of cultured fibroblasts. <i>Cytoskeleton</i> , 1989, 12, 150-156.	4.4	42
62	Diatrack particle tracking software: Review of applications and performance evaluation. <i>Traffic</i> , 2017, 18, 840-852.	1.3	42
63	Visualization of cellular focal contacts using a monoclonal antibody to 80 kD serum protein adsorbed on the substratum. <i>Experimental Cell Research</i> , 1983, 149, 387-396.	1.2	41
64	Regulation of Bidirectional Melanosome Transport by Organelle Bound MAP Kinase. <i>Current Biology</i> , 2005, 15, 459-463.	1.8	41
65	Microtubule-mediated transport of the tumor-suppressor protein Merlin and its mutants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7311-7316.	3.3	41
66	Effects of small doses of cytochalasins on fibroblasts: preferential changes of active edges and focal contacts.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982, 79, 7754-7757.	3.3	40
67	Drosophila Strip serves as a platform for early endosome organization during axon elongation. <i>Nature Communications</i> , 2014, 5, 5180.	5.8	40
68	Of Yeast, Mice, and Men. <i>Journal of Cell Biology</i> , 2001, 152, F21-F24.	2.3	39
69	Melanosomes Transported by Myosin-V in Xenopus Melanophores Perform Slow 35nm Steps. <i>Biophysical Journal</i> , 2006, 90, L07-L09.	0.2	39
70	Rab32 Regulates Melanosome Transport in Xenopus Melanophores by Protein Kinase A Recruitment. <i>Current Biology</i> , 2007, 17, 2030-2034.	1.8	38
71	Ooplasmic flow cooperates with transport and anchorage in <i>Drosophila</i> oocyte posterior determination. <i>Journal of Cell Biology</i> , 2018, 217, 3497-3511.	2.3	37
72	Every motion has its motor. <i>Nature</i> , 1992, 359, 480-481.	13.7	36

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73	Competition between kinesin-1 and myosin-V defines Drosophila posterior determination. <i>ELife</i> , 2020, 9, .	2.8	36
74	Structural and biochemical properties of kinesin heavy chain associated with rat brain mitochondria. <i>Cytoskeleton</i> , 1994, 28, 79-93.	4.4	34
75	A new ATPase in cytoplasmic microtubule preparations. <i>FEBS Letters</i> , 1978, 88, 197-200.	1.3	33
76	Abnormal intermediate filament organization alters mitochondrial motility in giant axonal neuropathy fibroblasts. <i>Molecular Biology of the Cell</i> , 2016, 27, 608-616.	0.9	32
77	Differential regulation of dynein-driven melanosome movement. <i>Biochemical and Biophysical Research Communications</i> , 2003, 309, 652-658.	1.0	31
78	Chemical structure-guided design of dynapyrazoles, cell-permeable dynein inhibitors with a unique mode of action. <i>ELife</i> , 2017, 6, .	2.8	31
79	Methods for Determining the Cellular Functions of Vimentin Intermediate Filaments. <i>Methods in Enzymology</i> , 2016, 568, 389-426.	0.4	30
80	±E-catenin binds to dynamin and regulates dynactin-mediated intracellular traffic. <i>Journal of Cell Biology</i> , 2008, 183, 989-997.	2.3	29
81	High molecular weight protein MAP 2 promoting microtubule assembly in vitro is associated with microtubules in cells. <i>Cell Biology International Reports</i> , 1980, 4, 1017-1024.	0.7	28
82	Immunofluorescent localization of protein synthesis components in mouse embryo fibroblasts. <i>Cell Biology International Reports</i> , 1987, 11, 745-753.	0.7	28
83	Engineered kinesin motor proteins amenable to small-molecule inhibition. <i>Nature Communications</i> , 2016, 7, 11159.	5.8	28
84	Myosin-Va restrains the trafficking of Na ⁺ /K ⁺ -ATPase-containing vesicles in alveolar epithelial cells. <i>Journal of Cell Science</i> , 2009, 122, 3915-3922.	1.2	27
85	Cold-stable microtubules in the cytoplasm of mouse embryo fibroblasts. <i>Cell Biology International Reports</i> , 1979, 3, 45-50.	0.7	26
86	Stimulation of actin synthesis in phalloidin-treated cells. <i>FEBS Letters</i> , 1990, 277, 11-14.	1.3	25
87	Some of eukaryotic elongation factor 2 is colocalized with actin microfilament bundles in mouse embryo fibroblasts. <i>Cell Biology International Reports</i> , 1991, 15, 75-84.	0.7	25
88	Organization of stress fibers in cultured fibroblasts after extraction of actin with bovine brain gelsolin-like protein. <i>Experimental Cell Research</i> , 1987, 173, 244-255.	1.2	24
89	[30] In Vitro motility assay for melanophore pigment organelles. <i>Methods in Enzymology</i> , 1998, 298, 361-372.	0.4	24
90	Unconventional Roles of Cytoskeletal Mitotic Machinery in Neurodevelopment. <i>Trends in Cell Biology</i> , 2019, 29, 901-911.	3.6	23

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91	Gatekeeper function for Short stop at the ring canals of the <i>Drosophila</i> ovary. <i>Current Biology</i> , 2021, 31, 3207-3220.e4.	1.8	23
92	Kinesin-dependent transport of keratin filaments: a unified mechanism for intermediate filament transport. <i>FASEB Journal</i> , 2019, 33, 388-399.	0.2	22
93	Phalloidin and tropomyosin do not prevent actin filament shortening by the 90 kD protein-actin complex from brain. <i>Biochemical and Biophysical Research Communications</i> , 1984, 123, 596-603.	1.0	20
94	Microtubule Dynamics, Kinesin-1 Sliding, and Dynein Action Drive Growth of Cell Processes. <i>Biophysical Journal</i> , 2018, 115, 1614-1624.	0.2	19
95	Role of kinesin light chain 2 of kinesin 1 in the traffic of Na,K-ATPase-containing vesicles in alveolar epithelial cells. <i>FASEB Journal</i> , 2010, 24, 374-382.	0.2	17
96	Conserved role for Ataxin 2 in mediating endoplasmic reticulum dynamics. <i>Traffic</i> , 2019, 20, 436-447.	1.3	17
97	Polymerization of purified tubulin by synthetic polycations. <i>FEBS Letters</i> , 1978, 95, 343-346.	1.3	16
98	Cytoplasmic microtubular motors. <i>Current Opinion in Cell Biology</i> , 1989, 1, 63-66.	2.6	16
99	Organelle Transport in Cultured <i>Drosophila</i> Cells: S2 Cell Line and Primary Neurons.. <i>Journal of Visualized Experiments</i> , 2013, , e50838.	0.2	16
100	MAP2-mediated binding of chromaffin granules to microtubules. <i>FEBS Letters</i> , 1991, 282, 65-68.	1.3	15
101	Protein kinase Darkener of apricot and its substrate EF1 β regulate organelle transport along microtubules. <i>Journal of Cell Science</i> , 2014, 127, 33-9.	1.2	15
102	A study of microtubule structures in solution by small-angle X-ray scattering. <i>FEBS Letters</i> , 1977, 84, 153-155.	1.3	14
103	Microtubular system in cultured mouse epithelial cells. <i>Cell Biology International Reports</i> , 1978, 2, 345-351.	0.7	14
104	Purification of a thermostable high molecular weight factor promoting tubulin polymerization. <i>FEBS Letters</i> , 1978, 95, 339-342.	1.3	14
105	Polarization of cytoplasmic fragments microsurgically detached from mouse fibroblasts. <i>Cell Biology International Reports</i> , 1985, 9, 883-892.	0.7	14
106	Kinetochores protein Spindly controls microtubule polarity in <i>Drosophila</i> axons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12155-12163.	3.3	12
107	Identification of a 100 kD protein associated with microtubules, intermediate filaments and coated vesicles in cultured cells. <i>Experimental Cell Research</i> , 1985, 159, 377-387.	1.2	10
108	A Dominant Negative Approach for Functional Studies of the Kinesin II Complex. , 2001, 164, 191-204.		10

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109	Mechanical coupling of microtubule-dependent motor teams during peroxisome transport in <i>Drosophila</i> S2 cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3178-3189.	1.1	10
110	A novel mechanism of bulk cytoplasmic transport by cortical dynein in <i>Drosophila</i> ovary. <i>ELife</i> , 2022, 11, .	2.8	10
111	Multinucleation of transformed cells normalizes their spreading on the substratum and their cytoskeleton structure. <i>Cell Biology International Reports</i> , 1981, 5, 143-150.	0.7	9
112	MAP2 competes with MAP1 for binding to microtubules. <i>Biochemical and Biophysical Research Communications</i> , 1984, 119, 173-178.	1.0	9
113	Intracellular Transport: ER and Mitochondria Meet and Greet along Designated Tracks. <i>Current Biology</i> , 2010, 20, R845-R847.	1.8	9
114	Cytoplasmic microtubule sliding. <i>Communicative and Integrative Biology</i> , 2010, 3, 589-591.	0.6	9
115	Ser/Thr kinase Trc controls neurite outgrowth in <i>Drosophila</i> by modulating microtubule-microtubule sliding. <i>ELife</i> , 2020, 9, .	2.8	9
116	Comparison of mitostatic effect, cell uptake and tubulin-binding activity of colchicine and colcemid. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1981, 673, 86-92.	1.1	7
117	G-actin-tubulin interaction. <i>FEBS Letters</i> , 1981, 135, 290-294.	1.3	6
118	Statistics of Active Transport in <i>Xenopus</i> Melanophores Cells. <i>Biophysical Journal</i> , 2010, 99, 3216-3223.	0.2	6
119	A Genome-wide RNAi Screen for Microtubule Bundle Formation and Lysosome Motility Regulation in <i>Drosophila</i> S2 Cells. <i>Cell Reports</i> , 2016, 14, 611-620.	2.9	6
120	The movement of melanosomes in melanophore fragments obtained by laser microbeam irradiation. <i>Cell Biology International Reports</i> , 1987, 11, 565-572.	0.7	5
121	Motor-cargo release: CaMKII as a traffic cop. <i>Nature Cell Biology</i> , 2008, 10, 3-5.	4.6	5
122	Purification of Kinesin from the Brain. , 2001, 164, 1-7.		3
123	Ataxin-2 is essential for cytoskeletal dynamics and neurodevelopment in <i>Drosophila</i> . <i>IScience</i> , 2022, 25, 103536.	1.9	2
124	Analysis of antineuronal antibodies in sera of patients with amyotrophic lateral sclerosis. <i>Bulletin of Experimental Biology and Medicine</i> , 1993, 115, 168-171.	0.3	1
125	Optical manipulation of silicon microparticles in biological environments. , 2003, , .		1
126	Breaking Up Isnâ€™t Easy: Myosin V and Its Cargoes Need Dma1â€™Ubiquitin Ligaseâ€™s Help. <i>Developmental Cell</i> , 2014, 28, 479-480.	3.1	1

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127	Effect of various substances on colchicine uptake by cells sensitive and resistant to it. Bulletin of Experimental Biology and Medicine, 1979, 88, 1062-1065.	0.3	0
128	Possible role of centrioles in stabilization of cytoplasmic microtubules. Bulletin of Experimental Biology and Medicine, 1984, 97, 511-514.	0.3	0
129	Glycerol models of ciliated epithelium of the bronchial mucosa and their use for the diagnosis of chronic nonspecific lung diseases. Bulletin of Experimental Biology and Medicine, 1986, 101, 105-107.	0.3	0
130	Diverging Effects Of CAMP/PKA In The Traffic And Function Of The Na,K-ATPase In Alveolar Epithelial Cells. , 2011, , .		0
131	Repurposing Kinetochore Microtubule Attachment Machinery in Neurodevelopment. Developmental Cell, 2019, 48, 746-748.	3.1	0
132	Short Stop is a Gatekeeper at the Ring Canals of <i>Drosophila</i> Ovary. SSRN Electronic Journal, 0, , .	0.4	0
133	Tissue architecture: Two kinesins collaborate in building basement membrane. Current Biology, 2022, 32, R162-R165.	1.8	0