Vladimir I Gelfand

List of Publications by Year
in descending order

133 papers	9,739 citations	36303 51 h-index	39675 94 g-index
171 all docs	171 docs citations	171 times ranked	7591 citing authors

#	Article	IF	Citations
1	Ataxin-2 is essential for cytoskeletal dynamics and neurodevelopment in Drosophila. IScience, 2022, 25, 103536.	4.1	2
2	A novel mechanism of bulk cytoplasmic transport by cortical dynein in Drosophila ovary. ELife, 2022, 11, .	6.0	10
3	Tissue architecture: Two kinesins collaborate inÂbuilding basement membrane. Current Biology, 2022, 32, R162-R165.	3.9	0
4	Gatekeeper function for Short stop at the ring canals of the Drosophila ovary. Current Biology, 2021, 31, 3207-3220.e4.	3.9	23
5	Kinetochore protein Spindly controls microtubule polarity in <i>Drosophila</i> axons. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12155-12163.	7.1	12
6	Ser/Thr kinase Trc controls neurite outgrowth in Drosophila by modulating microtubule-microtubule sliding. ELife, 2020, 9, .	6.0	9
7	Competition between kinesin-1 and myosin-V defines Drosophila posterior determination. ELife, 2020, 9, .	6.0	36
8	Kinesinâ€dependent transport of keratin filaments: a unified mechanism for intermediate filament transport. FASEB Journal, 2019, 33, 388-399.	0.5	22
9	Unconventional Roles of Cytoskeletal Mitotic Machinery in Neurodevelopment. Trends in Cell Biology, 2019, 29, 901-911.	7.9	23
10	Conserved role for Ataxinâ€2 in mediating endoplasmic reticulum dynamics. Traffic, 2019, 20, 436-447.	2.7	17
11	Repurposing Kinetochore Microtubule Attachment Machinery in Neurodevelopment. Developmental Cell, 2019, 48, 746-748.	7.0	0
12	Microtubule Dynamics, Kinesin-1 Sliding, andÂDynein Action Drive Growth of Cell Processes. Biophysical Journal, 2018, 115, 1614-1624.	0.5	19
13	Ooplasmic flow cooperates with transport and anchorage in <i>Drosophila</i> oocyte posterior determination. Journal of Cell Biology, 2018, 217, 3497-3511.	5.2	37
14	Microtubule-Based Transport and the Distribution, Tethering, and Organization of Organelles. Cold Spring Harbor Perspectives in Biology, 2017, 9, a025817.	5.5	167
15	Moonlighting Motors: Kinesin, Dynein, and Cell Polarity. Trends in Cell Biology, 2017, 27, 505-514.	7.9	84
16	Diatrack particle tracking software: Review of applications and performance evaluation. Traffic, 2017, 18, 840-852.	2.7	42
17	Mechanical coupling of microtubule-dependent motor teams during peroxisome transport in Drosophila S2 cells. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3178-3189.	2.4	10
18	Chemical structure-guided design of dynapyrazoles, cell-permeable dynein inhibitors with a unique mode of action. ELife, 2017, 6, .	6.0	31

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19	Methods for Determining the Cellular Functions of Vimentin Intermediate Filaments. Methods in Enzymology, 2016, 568, 389-426.	1.0	30
20	Intermediate filament dynamics: What we can see now and why it matters. BioEssays, 2016, 38, 232-243.	2.5	55
21	Engineered kinesin motor proteins amenable to small-molecule inhibition. Nature Communications, 2016, 7, 11159.	12.8	28
22	Role of kinesin-1â€"based microtubule sliding in <i>Drosophila</i> nervous system development. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4985-94.	7.1	73
23	Microtubuleâ€"microtubule sliding by kinesin-1 is essential for normal cytoplasmic streaming in <i>Drosophila</i> oocytes. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4995-5004.	7.1	73
24	A Genome-wide RNAi Screen for Microtubule Bundle Formation and Lysosome Motility Regulation in Drosophila S2 Cells. Cell Reports, 2016, 14, 611-620.	6.4	6
25	Abnormal intermediate filament organization alters mitochondrial motility in giant axonal neuropathy fibroblasts. Molecular Biology of the Cell, 2016, 27, 608-616.	2.1	32
26	Pavarotti/MKLP1 Regulates Microtubule Sliding and Neurite Outgrowth in Drosophila Neurons. Current Biology, 2015, 25, 200-205.	3.9	56
27	Kinesin-1â€"powered microtubule sliding initiates axonal regeneration in<i>Drosophila</i>cultured neurons. Molecular Biology of the Cell, 2015, 26, 1296-1307.	2.1	80
28	Vimentin filament precursors exchange subunits in an ATP-dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3505-14.	7.1	50
29	Microtubule-dependent transport and dynamics of vimentin intermediate filaments. Molecular Biology of the Cell, 2015, 26, 1675-1686.	2.1	80
30	Mitochondrial membrane potential is regulated by vimentin intermediate filaments. FASEB Journal, 2015, 29, 820-827.	0.5	73
31	Interplay between kinesin-1 and cortical dynein during axonal outgrowth and microtubule organization in Drosophila neurons. ELife, 2015, 4, e10140.	6.0	86
32	Protein kinase Darkener of apricot and its substrate EF1Î³ regulate organelle transport along microtubules. Journal of Cell Science, 2014, 127, 33-9.	2.0	15
33	Drosophila Strip serves as a platform for early endosome organization during axon elongation. Nature Communications, 2014, 5, 5180.	12.8	40
34	Microtubuleâ€dependent transport of vimentin filament precursors is regulated by actin and by the concerted action of Rhoâ€•and p21â€activated kinases. FASEB Journal, 2014, 28, 2879-2890.	0.5	55
35	Breaking Up Isnâ€™t Easy: Myosin V and Its Cargoes Need Dma1ÂUbiquitin Ligaseâ€™s Help. Developmental Cell, 2014, 28, 479-480.	7.0	1
36	The journey of the organelle: teamwork and regulation in intracellular transport. Current Opinion in Cell Biology, 2013, 25, 483-488.	5.4	52

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37	The Microtubule-Binding Protein Ensconsin Is an Essential Cofactor of Kinesin-1. Current Biology, 2013, 23, 317-322.	3.9	119
38	Initial Neurite Outgrowth in Drosophila Neurons Is Driven by Kinesin-Powered Microtubule Sliding. Current Biology, 2013, 23, 1018-1023.	3.9	157
39	Organelle Transport in Cultured Drosophila Cells: S2 Cell Line and Primary Neurons.. Journal of Visualized Experiments, 2013, , e50838.	0.3	16
40	Small-molecule inhibitors of the AAA+ ATPase motor cytoplasmic dynein. Nature, 2012, 484, 125-129.	27.8	342
41	Vimentin intermediate filaments modulate the motility of mitochondria. Molecular Biology of the Cell, 2011, 22, 2282-2289.	2.1	114
42	Bidirectional intracellular transport: utility and mechanism. Biochemical Society Transactions, 2011, 39, 1126-1130.	3.4	45
43	Diverging Effects Of CAMP/PKA In The Traffic And Function Of The Na,K-ATPase In Alveolar Epithelial Cells. , 2011, , .		0
44	Intracellular Transport: ER and Mitochondria Meet and Greet along Designated Tracks. Current Biology, 2010, 20, R845-R847.	3.9	9
45	Microtubule-mediated transport of the tumor-suppressor protein Merlin and its mutants. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7311-7316.	7.1	41
46	Role of kinesin light chainâ€2 of kinesinâ€1 in the traffic of Na,Kâ€ATPaseâ€containing vesicles in alveolar epithelial cells. FASEB Journal, 2010, 24, 374-382.	0.5	17
47	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.	7.1	119
48	Cytoplasmic microtubule sliding. Communicative and Integrative Biology, 2010, 3, 589-591.	1.4	9
49	Statistics of Active Transport in Xenopus Melanophores Cells. Biophysical Journal, 2010, 99, 3216-3223.	0.5	6
50	Myosin-Va restrains the trafficking of Na+/K+-ATPase-containing vesicles in alveolar epithelial cells. Journal of Cell Science, 2009, 122, 3915-3922.	2.0	27
51	The dynamic properties of intermediate filaments during organelle transport. Journal of Cell Science, 2009, 122, 2914-2923.	2.0	62
52	Opposite-polarity motors activate one another to trigger cargo transport in live cells. Journal of Cell Biology, 2009, 187, 1071-1082.	5.2	203
53	Motor-cargo release: CaMKII as a traffic cop. Nature Cell Biology, 2008, 10, 3-5.	10.3	5
54	Î±â€œE-catenin binds to dynamitin and regulates dynactin-mediated intracellular traffic. Journal of Cell Biology, 2008, 183, 989-997.	5.2	29

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55	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.	7.1	131
56	Microtubule binding by dynactin is required for microtubule organization but not cargo transport. Journal of Cell Biology, 2007, 176, 641-651.	5.2	124
57	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.	7.1	99
58	Rab32 Regulates Melanosome Transport in Xenopus Melanophores by Protein Kinase A Recruitment. Current Biology, 2007, 17, 2030-2034.	3.9	38
59	Organelle Transport along Microtubules in Xenopus Melanophores: Evidence for Cooperation between Multiple Motors. Biophysical Journal, 2006, 90, 318-327.	0.5	184
60	Melanosomes Transported by Myosin-V in Xenopus Melanophores Perform Slow 35nm Steps. Biophysical Journal, 2006, 90, L07-L09.	0.5	39
61	Regulation of mitochondria distribution by RhoA and formins. Journal of Cell Science, 2006, 119, 659-670.	2.0	88
62	Paradigm lost: milton connects kinesin heavy chain to miro on mitochondria. Journal of Cell Biology, 2006, 173, 459-461.	5.2	55
63	Kinesin and Dynein Move a Peroxisome in Vivo: A Tug-of-War or Coordinated Movement?. Science, 2005, 308, 1469-1472.	12.6	563
64	Regulation of Bidirectional Melanosome Transport by Organelle Bound MAP Kinase. Current Biology, 2005, 15, 459-463.	3.9	41
65	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.	7.1	151
66	Differential regulation of dynein-driven melanosome movement. Biochemical and Biophysical Research Communications, 2003, 309, 652-658.	2.1	31
67	Dynactin is required for bidirectional organelle transport. Journal of Cell Biology, 2003, 160, 297-301.	5.2	281
68	Pigment Cells: A Model for the Study of Organelle Transport. Annual Review of Cell and Developmental Biology, 2003, 19, 469-491.	9.4	153
69	Optical manipulation of silicon microparticles in biological environments. , 2003, , .		1
70	Interactions and regulation of molecular motors in Xenopus melanophores. Journal of Cell Biology, 2002, 156, 855-865.	5.2	284
71	Improved Sensitivity for Phosphopeptide Mapping Using Capillary Column HPLC and Microionspray Mass Spectrometry:Â Comparative Phosphorylation Site Mapping from Gel-Derived Proteins. Analytical Chemistry, 2002, 74, 3221-3231.	6.5	72
72	Motorâ€“cargo interactions: the key to transport specificity. Trends in Cell Biology, 2002, 12, 21-27.	7.9	174

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73	Regulation of molecular motor proteins. International Review of Cytology, 2001, 204, 179-238.	6.2	43
74	A Dominant Negative Approach for Functional Studies of the Kinesin II Complex. , 2001, 164, 191-204.		10
75	Purification of Kinesin from the Brain. , 2001, 164, 1-7.		3
76	Cell Cycle Regulation of Myosin-V by Calcium/Calmodulin-Dependent Protein Kinase II. Science, 2001, 293, 1317-1320.	12.6	141
77	Of Yeast, Mice, and Men. Journal of Cell Biology, 2001, 152, F21-F24.	5.2	39
78	Membrane trafficking, organelle transport, and the cytoskeleton. Current Opinion in Cell Biology, 2000, 12, 57-62.	5.4	173
79	Postsynaptic Scaffolds of Excitatory and Inhibitory Synapses in Hippocampal Neurons: Maintenance of Core Components Independent of Actin Filaments and Microtubules. Journal of Neuroscience, 2000, 20, 4545-4554.	3.6	217
80	Regulation of Melanosome Movement in the Cell Cycle by Reversible Association with Myosin V. Journal of Cell Biology, 1999, 146, 1265-1276.	5.2	125
81	Molecular Mechanisms of Pigment Transport in Melanophores. Pigment Cell & Melanoma Research, 1999, 12, 283-294.	3.6	71
82	Myosin cooperates with microtubule motors during organelle transport in melanophores. Current Biology, 1998, 8, 161-164.	3.9	240
83	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.	5.2	89
84	Heterotrimeric Kinesin II Is the Microtubule Motor Protein Responsible for Pigment Dispersion in Xenopus Melanophores. Journal of Cell Biology, 1998, 143, 1547-1558.	5.2	175
85	[30] In Vitro motility assay for melanophore pigment organelles. Methods in Enzymology, 1998, 298, 361-372.	1.0	24
86	Role of Actin in Anchoring Postsynaptic Receptors in Cultured Hippocampal Neurons: Differential Attachment of NMDA versus AMPA Receptors. Journal of Neuroscience, 1998, 18, 2423-2436.	3.6	518
87	Regulated bidirectional motility of melanophore pigment granules along microtubules in vitro. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 3720-3725.	7.1	212
88	Antibodies to the kinesin motor domain and CENP-E inhibit microtubule depolymerization-dependent motion of chromosomes in vitro.. Journal of Cell Biology, 1995, 128, 107-115.	5.2	214
89	Microtubule dynamics in fish melanophores.. Journal of Cell Biology, 1994, 126, 1455-1464.	5.2	75
90	Structural and biochemical properties of kinesin heavy chain associated with rat brain mitochondria. Cytoskeleton, 1994, 28, 79-93.	4.4	34

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91	Analysis of antineuronal antibodies in sera of patients with amyotrophic lateral sclerosis. Bulletin of Experimental Biology and Medicine, 1993, 115, 168-171.	0.8	1
92	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.	5.2	159
93	HSP70-related 65 kDa protein of beet yellows closterovirus is a microtubule-binding protein. FEBS Letters, 1992, 304, 12-14.	2.8	63
94	Every motion has its motor. Nature, 1992, 359, 480-481.	27.8	36
95	Some of eukaryotic elongation factor 2 is colocalized with actin microfilament bundles in mouse embryo fibroblasts. Cell Biology International Reports, 1991, 15, 75-84.	0.6	25
96	Microtubule Dynamics: Mechanism, Regulation, and Function. Annual Review of Cell Biology, 1991, 7, 93-116.	26.1	213
97	MAP2-mediated binding of chromaffin granules to microtubules. FEBS Letters, 1991, 282, 65-68.	2.8	15
98	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.	7.1	167
99	Coalignment of vimentin intermediate filaments with microtubules depends on kinesin. Nature, 1991, 353, 445-448.	27.8	215
100	Stimulation of actin synthesis in phalloidin-treated cells. FEBS Letters, 1990, 277, 11-14.	2.8	25
101	Direct visualization of bipolar myosin filaments in stress fibers of cultured fibroblasts. Cytoskeleton, 1989, 12, 150-156.	4.4	42
102	Cytoplasmic microtubular motors. Current Opinion in Cell Biology, 1989, 1, 63-66.	5.4	16
103	The quaternary structure of bovine brain kinesin.. EMBO Journal, 1988, 7, 353-356.	7.8	167
104	Immunofluorescent localization of protein synthesis components in mouse embryo fibroblasts. Cell Biology International Reports, 1987, 11, 745-753.	0.6	28
105	18 kDa microtubule-associated protein: identification as a new light chain (LC-3) of microtubule-associated protein 1 (MAP-1). FEBS Letters, 1987, 212, 145-148.	2.8	53
106	Organization of stress fibers in cultured fibroblasts after extraction of actin with bovine brain gelsolin-like protein. Experimental Cell Research, 1987, 173, 244-255.	2.6	24
107	The movement of melanosomes in melanophore fragments obtained by laser microbeam irradiation. Cell Biology International Reports, 1987, 11, 565-572.	0.6	5
108	Bovine brain kinesin is a microtubule-activated ATPase.. Proceedings of the National Academy of Sciences of the United States of America, 1986, 83, 8530-8534.	7.1	199

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109	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.	0.8	0
110	Polarization of cytoplasmic fragments microsurgically detached from mouse fibroblasts. Cell Biology International Reports, 1985, 9, 883-892.	0.6	14
111	Identification of a 100 kD protein associated with microtubules, intermediate filaments and coated vesicles in cultured cells. Experimental Cell Research, 1985, 159, 377-387.	2.6	10
112	Possible role of centrioles in stabilization of cytoplasmic microtubules. Bulletin of Experimental Biology and Medicine, 1984, 97, 511-514.	0.8	0
113	Phalloidin and tropomyosin do not prevent actin filament shortening by the 90 kD protein-actin complex from brain. Biochemical and Biophysical Research Communications, 1984, 123, 596-603.	2.1	20
114	MAP2 competes with MAP1 for binding to microtubules. Biochemical and Biophysical Research Communications, 1984, 119, 173-178.	2.1	9
115	Role of ATP in the regulation of stability of cytoskeletal structures. Cell Biology International Reports, 1983, 7, 173-187.	0.6	43
116	Visualization of cellular focal contacts using a monoclonal antibody to 80 kD serum protein adsorbed on the substratum. Experimental Cell Research, 1983, 149, 387-396.	2.6	41
117	Effects of small doses of cytochalasins on fibroblasts: preferential changes of active edges and focal contacts.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 7754-7757.	7.1	40
118	Purification of high-M r microtubule proteins MAP1 and MAP2. FEBS Letters, 1981, 135, 237-240.	2.8	46
119	Microtubule-associated protein MAP1 promotes microtubule assembly in vitro. FEBS Letters, 1981, 135, 241-244.	2.8	63
120	G-actin-tubulin interaction. FEBS Letters, 1981, 135, 290-294.	2.8	6
121	Comparison of mitostatic effect, cell uptake and tubulin-binding activity of colchicine and colcemid. Biochimica Et Biophysica Acta - General Subjects, 1981, 673, 86-92.	2.4	7
122	Multinucleation of transformed cells normalizes their spreading on the substratum and their cytoskeleton structure. Cell Biology International Reports, 1981, 5, 143-150.	0.6	9
123	Destruction of microfilament bundles in mouse embryo fibroblasts treated with inhibitors of energy metabolism. Experimental Cell Research, 1980, 127, 421-429.	2.6	105
124	High molecular weight protein MAP 2 promoting microtubuleassembly in vitro is associated with microtubules in cells. Cell Biology International Reports, 1980, 4, 1017-1024.	0.6	28
125	Effect of various substances on colchicine uptake by cells sensitive and resistant to it. Bulletin of Experimental Biology and Medicine, 1979, 88, 1062-1065.	0.8	0
126	Cold-stable microtubules in the cytoplasm of mouse embryo fibroblasts. Cell Biology International Reports, 1979, 3, 45-50.	0.6	26

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127	Microtubules in mouse embryo fibro blasts extracted with Triton X-100. Cell Biology International Reports, 1978, 2, 425-432.	0.6	60
128	Microtubular system in cultured mouse epithelial cells. Cell Biology International Reports, 1978, 2, 345-351.	0.6	14
129	A new ATPase in cytoplasmic microtubule preparations. FEBS Letters, 1978, 88, 197-200.	2.8	33
130	Purification of a thermostable high molecular weight factor promoting tubulin polymerization. FEBS Letters, 1978, 95, 339-342.	2.8	14
131	Polymerization of purified tubulin by synthetic polycations. FEBS Letters, 1978, 95, 343-346.	2.8	16
132	A study of microtubule structures in solution by small-angle X-ray scattering. FEBS Letters, 1977, 84, 153-155.	2.8	14
133	Short Stop is a Gatekeeper at the Ring Canals of <i>Drosophila</i> Ovary. SSRN Electronic Journal, 0, , .	0.4	0