

Fuyuhiko Tamanoi

List of Publications by Year in descending order

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122
papers

11,611
citations

36303

51
h-index

27406

106
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124
all docs

124
docs citations

124
times ranked

14539
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional Inorganic Nanoparticles for Imaging, Targeting, and Drug Delivery. <i>ACS Nano</i> , 2008, 2, 889-896.	14.6	1,758
2	Biocompatibility, Biodistribution, and Drug Delivery Efficiency of Mesoporous Silica Nanoparticles for Cancer Therapy in Animals. <i>Small</i> , 2010, 6, 1794-1805.	10.0	947
3	Mesoporous Silica Nanoparticles as a Delivery System for Hydrophobic Anticancer Drugs. <i>Small</i> , 2007, 3, 1341-1346.	10.0	927
4	Autonomous in Vitro Anticancer Drug Release from Mesoporous Silica Nanoparticles by pH-Sensitive Nanovalves. <i>Journal of the American Chemical Society</i> , 2010, 132, 12690-12697.	13.7	550
5	Light-Activated Nanoimpeller-Controlled Drug Release in Cancer Cells. <i>Small</i> , 2008, 4, 421-426.	10.0	430
6	A tagging-via-substrate technology for detection and proteomics of farnesylated proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 12479-12484.	7.1	322
7	Spatial regulation of the exocyst complex by Rho1 GTPase. <i>Nature Cell Biology</i> , 2001, 3, 353-360.	10.3	288
8	Development of mesoporous silica-based nanoparticles with controlled release capability for cancer therapy. <i>Advanced Drug Delivery Reviews</i> , 2015, 95, 40-49.	13.7	228
9	Mesoporous Silica Nanoparticles Facilitate Delivery of siRNA to Shutdown Signaling Pathways in Mammalian Cells. <i>Small</i> , 2010, 6, 1185-1190.	10.0	215
10	Synthesis of Biomolecule-Modified Mesoporous Silica Nanoparticles for Targeted Hydrophobic Drug Delivery to Cancer Cells. <i>Small</i> , 2011, 7, 1816-1826.	10.0	204
11	Small-Molecule Inhibitors of Protein Geranylgeranyltransferase Type I. <i>Journal of the American Chemical Society</i> , 2007, 129, 5843-5845.	13.7	196
12	In vivo tumor suppression efficacy of mesoporous silica nanoparticles-based drug-delivery system: enhanced efficacy by folate modification. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 212-220.	3.3	192
13	Loss of the TOR Kinase Tor2 Mimics Nitrogen Starvation and Activates the Sexual Development Pathway in Fission Yeast. <i>Molecular and Cellular Biology</i> , 2007, 27, 3154-3164.	2.3	181
14	Specific Activation of mTORC1 by Rheb G-protein in Vitro Involves Enhanced Recruitment of Its Substrate Protein. <i>Journal of Biological Chemistry</i> , 2009, 284, 12783-12791.	3.4	179
15	Therapeutic intervention based on protein prenylation and associated modifications. <i>Nature Chemical Biology</i> , 2006, 2, 518-528.	8.0	176
16	The Rheb family of GTP-binding proteins. <i>Cellular Signalling</i> , 2004, 16, 1105-1112.	3.6	175
17	Mesoporous Silica Nanoparticles for Cancer Therapy: Energy-Dependent Cellular Uptake and Delivery of Paclitaxel to Cancer Cells. <i>Nanobiotechnology</i> , 2007, 3, 89-95.	1.2	175
18	Inhibitors of ras farnesyltransferases. <i>Trends in Biochemical Sciences</i> , 1993, 18, 349-353.	7.5	167

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19	Protein-gold clusters-capped mesoporous silica nanoparticles for high drug loading, autonomous gemcitabine/doxorubicin co-delivery, and in-vivo tumor imaging. <i>Journal of Controlled Release</i> , 2016, 229, 183-191.	9.9	149
20	Drosophila Rheb GTPase is required for cell cycle progression and cell growth. <i>Journal of Cell Science</i> , 2003, 116, 3601-3610.	2.0	147
21	Neurofibromatosis 2 tumour suppressor schwannomin interacts with β II-spectrin. <i>Nature Genetics</i> , 1998, 18, 354-359.	21.4	145
22	Involvement of Lysosomal Exocytosis in the Excretion of Mesoporous Silica Nanoparticles and Enhancement of the Drug Delivery Effect by Exocytosis Inhibition. <i>Small</i> , 2013, 9, 697-704.	10.0	137
23	Point mutations in TOR confer Rheb-independent growth in fission yeast and nutrient-independent mammalian TOR signaling in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3514-3519.	7.1	133
24	The <i>Saccharomyces cerevisiae</i> Rheb G-protein Is Involved in Regulating Canavanine Resistance and Arginine Uptake. <i>Journal of Biological Chemistry</i> , 2000, 275, 11198-11206.	3.4	119
25	Two-photon-triggered Drug Delivery via Fluorescent Nanovalves. <i>Small</i> , 2014, 10, 1752-1755.	10.0	106
26	Mutational and functional analysis of the neurofibromatosis type 1 (NF1) gene. <i>Human Genetics</i> , 1996, 99, 88-92.	3.8	105
27	Identification of Dominant Negative Mutants of Rheb GTPase and Their Use to Implicate the Involvement of Human Rheb in the Activation of p70S6K. <i>Journal of Biological Chemistry</i> , 2003, 278, 39921-39930.	3.4	105
28	Mevalonate Pathway and Human Cancers. <i>Current Molecular Pharmacology</i> , 2017, 10, 77-85.	1.5	103
29	Mesostructured Silica for Optical Functionality, Nanomachines, and Drug Delivery. <i>Journal of the American Ceramic Society</i> , 2009, 92, s2-s10.	3.8	101
30	Chick chorioallantoic membrane assay as an in vivo model to study the effect of nanoparticle-based anticancer drugs in ovarian cancer. <i>Scientific Reports</i> , 2018, 8, 8524.	3.3	101
31	Cdk inhibitors, roscovitine and olomoucine, synergize with farnesyltransferase inhibitor (FTI) to induce efficient apoptosis of human cancer cell lines. <i>Oncogene</i> , 2000, 19, 3059-3068.	5.9	96
32	Two-photon-triggered Drug Delivery in Cancer Cells Using Nanoimpellers. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13813-13817.	13.8	94
33	Identification of novel single amino acid changes that result in hyperactivation of the unique GTPase, Rheb, in fission yeast. <i>Molecular Microbiology</i> , 2005, 58, 1074-1086.	2.5	83
34	Fission yeast TORC1 regulates phosphorylation of ribosomal S6 proteins in response to nutrients and its activity is inhibited by rapamycin. <i>Journal of Cell Science</i> , 2010, 123, 777-786.	2.0	82
35	Biodegradable Oxamide-Phenylene-Based Mesoporous Organosilica Nanoparticles with Unprecedented Drug Payloads for Delivery in Cells. <i>Chemistry - A European Journal</i> , 2016, 22, 14806-14811.	3.3	81
36	Inhibitors of Protein Geranylgeranyltransferase I and Rab Geranylgeranyltransferase Identified from a Library of Allenoate-derived Compounds. <i>Journal of Biological Chemistry</i> , 2008, 283, 9571-9579.	3.4	79

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37	Hyaluronic acid conjugated nanoparticle delivery of siRNA against TWIST reduces tumor burden and enhances sensitivity to cisplatin in ovarian cancer. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 1381-1394.	3.3	75
38	<i>In vivo</i> antitumor effect of a novel inhibitor of protein geranylgeranyltransferase-I. <i>Molecular Cancer Therapeutics</i> , 2009, 8, 1218-1226.	4.1	72
39	Silica nanoparticles as a delivery system for nucleic acid-based reagents. <i>Journal of Materials Chemistry</i> , 2009, 19, 6308.	6.7	72
40	Loss of tuberous sclerosis complex 1 (Tsc1) expression results in increased Rheb/S6K pathway signaling important for astrocyte cell size regulation. <i>Glia</i> , 2004, 47, 180-188.	4.9	69
41	Nanoparticle delivery of siRNA against TWIST to reduce drug resistance and tumor growth in ovarian cancer models. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 965-976.	3.3	67
42	Functional Nanovalves on Protein-Coated Nanoparticles for In vitro and In vivo Controlled Drug Delivery. <i>Small</i> , 2015, 11, 319-328.	10.0	65
43	Psk1, an AGC kinase family member in fission yeast, is directly phosphorylated and controlled by TORC1 and functions as S6 kinase. <i>Journal of Cell Science</i> , 2012, 125, 5840-5849.	2.0	64
44	Recent progress in the study of the Rheb family GTPases. <i>Cellular Signalling</i> , 2014, 26, 1950-1957.	3.6	64
45	A novel approach to tag and identify geranylgeranylated proteins. <i>Electrophoresis</i> , 2009, 30, 3598-3606.	2.4	63
46	Failure to farnesylate Rheb protein contributes to the enrichment of G0/G1 phase cells in the <i>Schizosaccharomyces pombe</i> farnesyltransferase mutant. <i>Molecular Microbiology</i> , 2001, 41, 1339-1347.	2.5	62
47	Development of mesoporous silica nanomaterials as a vehicle for anticancer drug delivery. <i>Therapeutic Delivery</i> , 2012, 3, 389-404.	2.2	62
48	Activating mutations of TOR (target of rapamycin). <i>Genes To Cells</i> , 2011, 16, 141-151.	1.2	60
49	Increased Rheb-TOR signaling enhances sensitivity of the whole organism to oxidative stress. <i>Journal of Cell Science</i> , 2006, 119, 4285-4292.	2.0	59
50	Farnesylated proteins and cell cycle progression. <i>Journal of Cellular Biochemistry</i> , 2001, 84, 64-70.	2.6	56
51	Farnesyltransferase inhibitors reverse altered growth and distribution of actin filaments in Tsc-deficient cells via inhibition of both rapamycin-sensitive and -insensitive pathways. <i>Molecular Cancer Therapeutics</i> , 2005, 4, 918-926.	4.1	55
52	Ras Signaling in Yeast. <i>Genes and Cancer</i> , 2011, 2, 210-215.	1.9	55
53	Significance of filamin A in mTORC2 function in glioblastoma. <i>Molecular Cancer</i> , 2015, 14, 127.	19.2	52
54	Mesoporous silica nanoparticle delivery of chemically modified siRNA against TWIST1 leads to reduced tumor burden. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1657-1666.	3.3	51

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55	Tailoring the biodegradability of porous silicon nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 3416-3421.	4.0	46
56	Periodic Mesoporous Organosilica Nanoparticles with Controlled Morphologies and High Drug/Dye Loadings for Multicargo Delivery in Cancer Cells. <i>Chemistry - A European Journal</i> , 2016, 22, 9607-9615.	3.3	46
57	The TSC/Rheb/TOR Signaling Pathway in Fission Yeast and Mammalian Cells: Temperature Sensitive and Constitutive Active Mutants of TOR. <i>Cell Cycle</i> , 2007, 6, 1692-1695.	2.6	41
58	The Tsc/Rheb signaling pathway controls basic amino acid uptake via the Cat1 permease in fission yeast. <i>Molecular Genetics and Genomics</i> , 2008, 279, 441-450.	2.1	41
59	PAK1 Kinase Promotes Cell Motility and Invasiveness through CRK-II Serine Phosphorylation in Non-Small Cell Lung Cancer Cells. <i>PLoS ONE</i> , 2012, 7, e42012.	2.5	41
60	Hybrid Mesoporous Silica Nanoparticles with pH-Operated and Complementary H-Bonding Caps as an Autonomous Drug-Delivery System. <i>Chemistry - A European Journal</i> , 2014, 20, 9372-9380.	3.3	40
61	Biodegradability of Disulfide-Organosilica Nanoparticles Evaluated by Soft X-ray Photoelectron Spectroscopy: Cancer Therapy Implications. <i>ACS Applied Nano Materials</i> , 2019, 2, 479-488.	5.0	39
62	Designing Mesoporous Silica Nanoparticles to Overcome Biological Barriers by Incorporating Targeting and Endosomal Escape. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9656-9666.	8.0	39
63	Characterization of the Rheb-mTOR Signaling Pathway in Mammalian Cells: Constitutive Active Mutants of Rheb and mTOR. <i>Methods in Enzymology</i> , 2008, 438, 307-320.	1.0	38
64	Patient Derived Chicken Egg Tumor Model (PDcE Model): Current Status and Critical Issues. <i>Cells</i> , 2019, 8, 440.	4.1	38
65	Cytosolic and mitochondrial ROS production resulted in apoptosis induction in breast cancer cells treated with Crocin: The role of FOXO3a, PTEN and AKT signaling. <i>Biochemical Pharmacology</i> , 2020, 177, 113999.	4.4	37
66	Protein Farnesylation Is Critical for Maintaining Normal Cell Morphology and Canavanine Resistance in <i>Schizosaccharomyces pombe</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 429-438.	3.4	35
67	Increasing the length of progerin's isoprenyl anchor does not worsen bone disease or survival in mice with Hutchinson-Gilford progeria syndrome. <i>Journal of Lipid Research</i> , 2009, 50, 126-134.	4.2	33
68	Biodegradable Periodic Mesoporous Organosilica (BPMO) Loaded with Daunorubicin: A Promising Nanoparticle-Based Anticancer Drug. <i>ChemMedChem</i> , 2020, 15, 593-599.	3.2	33
69	Rheb G-Proteins and the Activation of mTORC1. <i>The Enzymes</i> , 2010, 27, 39-56.	1.7	29
70	Destruction of tumor mass by gadolinium-loaded nanoparticles irradiated with monochromatic X-rays: Implications for the Auger therapy. <i>Scientific Reports</i> , 2019, 9, 13275.	3.3	29
71	In vitro and in vivo effects of geranylgeranyltransferase I inhibitor P61A6 on non-small cell lung cancer cells. <i>BMC Cancer</i> , 2013, 13, 198.	2.6	28
72	A novel inhibitor of farnesyltransferase with a zinc site recognition moiety and a farnesyl group. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 3862-3866.	2.2	28

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73	Characterization of the geranylgeranyl transferase type I from <i>Schizosaccharomyces pombe</i> . <i>Molecular Microbiology</i> , 1998, 29, 1357-1367.	2.5	26
74	Significance of KRAS/PAK1/Crk pathway in non-small cell lung cancer oncogenesis. <i>BMC Cancer</i> , 2015, 15, 381.	2.6	26
75	Continuous spectroscopic measurements of photo-stimulated release of molecules by nanomachines in a single living cell. <i>Nanoscale</i> , 2012, 4, 3482.	5.6	24
76	Fission yeast arrestin-related trafficking adaptor, Arn1/Any1, is ubiquitinated by Pub1 E3 ligase and regulates endocytosis of Cat1 amino acid transporter. <i>Biology Open</i> , 2014, 3, 542-552.	1.2	24
77	Rheb Protein Binds CAD (Carbamoyl-phosphate Synthetase 2, Aspartate Transcarbamoylase, and) Tj ETQq1 1 0.784314 rgBT /Overl... Localization and Carbamoyl-phosphate Synthetase (CPSase) Activity. <i>Journal of Biological Chemistry</i> , 2015, 290, 1096-1105.	3.4	24
78	Overview of Studies Regarding Mesoporous Silica Nanomaterials and Their Biomedical Application. <i>The Enzymes</i> , 2018, 43, 1-10.	1.7	24
79	Characterization of Rheb functions using yeast and mammalian systems. <i>Methods in Enzymology</i> , 2001, 333, 217-231.	1.0	21
80	Prenylation of RAS and Inhibitors of Prenyltransferases. , 1996, , 95-137.		21
81	A novel metal-Chelating inhibitor of protein farnesyltransferase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 1523-1526.	2.2	20
82	Recent Development to Explore the Use of Biodegradable Periodic Mesoporous Organosilica (BPMO) Nanomaterials for Cancer Therapy. <i>Pharmaceutics</i> , 2020, 12, 890.	4.5	19
83	Identification and Characterization of Mechanism of Action of P61-E7, a Novel Phosphine Catalysis-Based Inhibitor of Geranylgeranyltransferase-I. <i>PLoS ONE</i> , 2011, 6, e26135.	2.5	17
84	Anticancer Effect and Molecular Targets of Saffron Carotenoids. <i>The Enzymes</i> , 2014, 36, 57-86.	1.7	17
85	Miniaturization of thiol-organosilica nanoparticles induced by an anionic surfactant. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 51-62.	9.4	16
86	Relationship between the glutathione-responsive degradability of thiol-organosilica nanoparticles and the chemical structures. <i>Journal of Materials Research</i> , 2019, 34, 1266-1278.	2.6	15
87	Construction of Boronophenylalanine-Loaded Biodegradable Periodic Mesoporous Organosilica Nanoparticles for BNCT Cancer Therapy. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2251.	4.1	15
88	The Ras Superfamily G-Proteins. <i>The Enzymes</i> , 2013, 33 Pt A, 1-14.	1.7	13
89	Drug Release from Three-Dimensional Cubic Mesoporous Silica Nanoparticles Controlled by Nanopellers. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 588-594.	1.2	13
90	Recent Progress in Developing Small Molecule Inhibitors Designed to Interfere with Ras Membrane Association. <i>The Enzymes</i> , 2013, 34 Pt. B, 181-200.	1.7	12

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91	How Phytochemicals Prevent Chemical Carcinogens and/or Suppress Tumor Growth?. The Enzymes, 2015, 37, 1-42.	1.7	12
92	In vitro delivery of calcium ions by nanogated mesoporous silica nanoparticles to induce cancer cellular apoptosis. Molecular Systems Design and Engineering, 2017, 2, 384-392.	3.4	12
93	Isolation and characterization of the primary epithelial breast cancer cells and the adjacent normal epithelial cells from Iranian women's breast cancer tumors. Cytotechnology, 2018, 70, 625-639.	1.6	12
94	Advances in the development of farnesyltransferase inhibitors: Substrate recognition by protein farnesyltransferase. Journal of Cellular Biochemistry, 1997, 67, 12-19.	2.6	10
95	Conservation of the Tsc/Rheb/TORC1/S6K/S6 Signaling in Fission Yeast. The Enzymes, 2010, 28, 167-187.	1.7	10
96	Studies on the Exposure of Gadolinium Containing Nanoparticles with Monochromatic X-rays Drive Advances in Radiation Therapy. Nanomaterials, 2020, 10, 1341.	4.1	10
97	Iodine containing porous organosilica nanoparticles trigger tumor spheroids destruction upon monochromatic X-ray irradiation: DNA breaks and K-edge energy X-ray. Scientific Reports, 2021, 11, 14192.	3.3	10
98	Nanoformulation of Geranylgeranyltransferase-I Inhibitors for Cancer Therapy: Liposomal Encapsulation and pH-Dependent Delivery to Cancer Cells. PLoS ONE, 2015, 10, e0137595.	2.5	9
99	Reducing particle size of biodegradable nanomaterial for efficient curcumin loading. Journal of Materials Science, 2021, 56, 3713-3722.	3.7	9
100	An oncogenic mutant of RHEB, RHEB Y35N, exhibits an altered interaction with BRAF resulting in cancer transformation. BMC Cancer, 2018, 18, 69.	2.6	8
101	The CAM Model for CIC-DUX4 Sarcoma and Its Potential Use for Precision Medicine. Cells, 2021, 10, 2613.	4.1	8
102	A Two-Hybrid Approach to Identify Inhibitors of the RAS-RAF Interaction. The Enzymes, 2013, 33 Pt A, 213-248.	1.7	7
103	Recent excitements in the study of the CAM assay. The Enzymes, 2019, 46, 1-9.	1.7	7
104	Chemical Biology/ Chemical Genetics/ Chemical Genomics: Importance of Chemical Library. Chem-Bio Informatics Journal, 2007, 7, 49-68.	0.3	6
105	Exploiting Enzyme Alterations in Cancer for Drug Activation, Drug Delivery, and Nanotherapy. The Enzymes, 2017, 42, 153-172.	1.7	5
106	Facile synthesis of biodegradable mesoporous functionalized-organosilica nanoparticles for enhancing the anti-cancer efficiency of cordycepin. Microporous and Mesoporous Materials, 2021, 315, 110913.	4.4	4
107	Fiber-Optic Based Laser Wakefield Accelerated Electron Beams and Potential Applications in Radiotherapy Cancer Treatments. Photonics, 2022, 9, 403.	2.0	4
108	Using Drosophila and Yeast Genetics to Investigate a Role for the Rheb GTPase in Cell Growth. Methods in Enzymology, 2006, 407, 443-454.	1.0	3

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109	Nanoparticle-Based Delivery of siRNA and miRNA for Cancer Therapy. <i>The Enzymes</i> , 2012, , 185-203.	1.7	3
110	Tumor Targeting and Tumor Growth Inhibition Capability of Mesoporous Silica Nanoparticles in Mouse Models. <i>The Enzymes</i> , 2018, 44, 61-82.	1.7	3
111	Anticancer Drug Delivery Capability of Biodegradable PMO in the Chicken Egg Tumor Model. <i>The Enzymes</i> , 2018, 44, 103-116.	1.7	3
112	Magnetic Nanoparticles and Alternating Magnetic Field for Cancer Therapy. <i>Fundamental Biomedical Technologies</i> , 2021, , 165-179.	0.2	1
113	Ras Family G-Proteins in <i>Saccharomyces Cerevisiae</i> and <i>Schizosaccharomyces Pombe</i> . , 2006, , 227-256.		1
114	Genetic Analysis of FTase and GGTase I and Natural Product Farnesyltransferase Inhibitors. , 0, , 145-157.		1
115	Tumor Accumulation of PIP-Based KRAS Inhibitor KR12 Evaluated by the Use of a Simple, Versatile Chicken Egg Tumor Model. <i>Cancers</i> , 2022, 14, 951.	3.7	1
116	Effects of farnesyltransferase inhibitors on cell cycle progression of human cancer cells. <i>Gene Function & Disease</i> , 2001, 2, 99-107.	0.3	0
117	Global Analysis of Prenylated Proteins by the Use of a Tagging via Substrate Approach. <i>The Enzymes</i> , 2011, , 195-206.	1.7	0
118	Introduction. <i>The Enzymes</i> , 2014, 36, 1-6.	1.7	0
119	Frontispiece: Biodegradable Oxamide-Phenylene-Based Mesoporous Organosilica Nanoparticles with Unprecedented Drug Payloads for Delivery in Cells. <i>Chemistry - A European Journal</i> , 2016, 22, .	3.3	0
120	GTP-Binding Protein Rheb. , 2016, , 1-6.		0
121	In vivo Tumor Suppression Efficacy of Mesoporous Silica Nanoparticle-Based Drug Delivery System: Enhanced Efficacy by Folate Modification. , 2017, , 215-234.		0
122	GTP-Binding Protein Rheb. , 2018, , 2288-2293.		0