

Haruhiko Kamada

List of Publications by Year in descending order

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92
papers

4,134
citations

94269

37
h-index

118652

62
g-index

97
all docs

97
docs citations

97
times ranked

5711
citing authors

#	ARTICLE	IF	CITATIONS
1	Silica and titanium dioxide nanoparticles cause pregnancy complications in mice. <i>Nature Nanotechnology</i> , 2011, 6, 321-328.	15.6	622
2	Amorphous nanosilica induce endocytosis-dependent ROS generation and DNA damage in human keratinocytes. <i>Particle and Fibre Toxicology</i> , 2011, 8, 1.	2.8	229
3	The use of PVP as a polymeric carrier to improve the plasma half-life of drugs. <i>Biomaterials</i> , 2004, 25, 3259-3266.	5.7	175
4	Systemic distribution, nuclear entry and cytotoxicity of amorphous nanosilica following topical application. <i>Biomaterials</i> , 2011, 32, 2713-2724.	5.7	161
5	Carbon Nanotubes Elicit DNA Damage and Inflammatory Response Relative to Their Size and Shape. <i>Inflammation</i> , 2010, 33, 276-280.	1.7	143
6	Synthesis of a poly(vinylpyrrolidone-co-dimethyl maleic anhydride) co-polymer and its application for renal drug targeting. <i>Nature Biotechnology</i> , 2003, 21, 399-404.	9.4	114
7	Interleukin-1 Family Cytokines as Mucosal Vaccine Adjuvants for Induction of Protective Immunity against Influenza Virus. <i>Journal of Virology</i> , 2010, 84, 12703-12712.	1.5	109
8	Activated protein C inhibits bronchial hyperresponsiveness and Th2 cytokine expression in mice. <i>Blood</i> , 2004, 103, 2196-2204.	0.6	91
9	Creation and X-ray Structure Analysis of the Tumor Necrosis Factor Receptor-1-selective Mutant of a Tumor Necrosis Factor- α Antagonist. <i>Journal of Biological Chemistry</i> , 2008, 283, 998-1007.	1.6	89
10	Functionalization of Tumor Necrosis Factor- α Using Phage Display Technique and PEGylation Improves Its Antitumor Therapeutic Window. <i>Clinical Cancer Research</i> , 2004, 10, 8293-8300.	3.2	76
11	Amorphous silica nanoparticles size-dependently aggravate atopic dermatitis-like skin lesions following an intradermal injection. <i>Particle and Fibre Toxicology</i> , 2012, 9, 3.	2.8	75
12	Effect of surface properties of silica nanoparticles on their cytotoxicity and cellular distribution in murine macrophages. <i>Nanoscale Research Letters</i> , 2011, 6, 93.	3.1	71
13	Distribution and histologic effects of intravenously administered amorphous nanosilica particles in the testes of mice. <i>Biochemical and Biophysical Research Communications</i> , 2012, 420, 297-301.	1.0	68
14	Structure-Function Relationship of Tumor Necrosis Factor (TNF) and Its Receptor Interaction Based on 3D Structural Analysis of a Fully Active TNFR1-Selective TNF Mutant. <i>Journal of Molecular Biology</i> , 2009, 385, 1221-1229.	2.0	65
15	Design of a pH-Sensitive Polymeric Carrier for Drug Release and Its Application in Cancer Therapy. <i>Clinical Cancer Research</i> , 2004, 10, 2545-2550.	3.2	64
16	Amorphous nanosilicas induce consumptive coagulopathy after systemic exposure. <i>Nanotechnology</i> , 2012, 23, 045101.	1.3	62
17	Intranasal exposure to amorphous nanosilica particles could activate intrinsic coagulation cascade and platelets in mice. <i>Particle and Fibre Toxicology</i> , 2013, 10, 41.	2.8	61
18	In vivo biotinylation of the vasculature in B-cell lymphoma identifies BST-2 as a target for antibody-based therapy. <i>Blood</i> , 2010, 115, 736-744.	0.6	60

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19	The targeting of anionized polyvinylpyrrolidone to the renal system. <i>Biomaterials</i> , 2004, 25, 4309-4315.	5.7	58
20	Acute phase proteins as biomarkers for predicting the exposure and toxicity of nanomaterials. <i>Biomaterials</i> , 2011, 32, 3-9.	5.7	54
21	Surface modification of amorphous nanosilica particles suppresses nanosilica-induced cytotoxicity, ROS generation, and DNA damage in various mammalian cells. <i>Biochemical and Biophysical Research Communications</i> , 2012, 427, 748-752.	1.0	51
22	The treatment of established murine collagen-induced arthritis with a TNFR1-selective antagonistic mutant TNF. <i>Biomaterials</i> , 2009, 30, 6638-6647.	5.7	50
23	Promotion of allergic immune responses by intranasally-administrated nanosilica particles in mice. <i>Nanoscale Research Letters</i> , 2011, 6, 195.	3.1	50
24	Identification and evaluation of metastasis-related proteins, oxysterol binding protein-like 5 and calumenin, in lung tumors. <i>International Journal of Oncology</i> , 2015, 47, 195-205.	1.4	50
25	Therapeutic effect of PEGylated TNFR1-selective antagonistic mutant TNF in experimental autoimmune encephalomyelitis mice. <i>Journal of Controlled Release</i> , 2011, 149, 8-14.	4.8	49
26	Liver-specific microRNAs as biomarkers of nanomaterial-induced liver damage. <i>Nanotechnology</i> , 2013, 24, 405102.	1.3	49
27	Intestinal absorption and biological effects of orally administered amorphous silica particles. <i>Nanoscale Research Letters</i> , 2014, 9, 532.	3.1	49
28	The therapeutic effect of TNFR1-selective antagonistic mutant TNF- $\hat{\pm}$ in murine hepatitis models. <i>Cytokine</i> , 2008, 44, 229-233.	1.4	47
29	Protein corona changes mediated by surface modification of amorphous silica nanoparticles suppress acute toxicity and activation of intrinsic coagulation cascade in mice. <i>Nanotechnology</i> , 2015, 26, 245101.	1.3	47
30	Improved cytosolic translocation and tumor-killing activity of Tat-shepherdin conjugates mediated by co-treatment with Tat-fused endosome-disruptive HA2 peptide. <i>Biochemical and Biophysical Research Communications</i> , 2007, 363, 1027-1032.	1.0	45
31	Ephrin receptor A10 is a promising drug target potentially useful for breast cancers including triple negative breast cancers. <i>Journal of Controlled Release</i> , 2014, 189, 72-79.	4.8	44
32	Protein C inhibitor inhibits breast cancer cell growth, metastasis and angiogenesis independently of its protease inhibitory activity. <i>International Journal of Cancer</i> , 2007, 121, 955-965.	2.3	43
33	Regulation of carcinoma cell invasion by protein C inhibitor whose expression is decreased in renal cell carcinoma. <i>International Journal of Cancer</i> , 2004, 108, 516-523.	2.3	41
34	Amorphous silica nanoparticles enhance cross-presentation in murine dendritic cells. <i>Biochemical and Biophysical Research Communications</i> , 2012, 427, 553-556.	1.0	40
35	Poly(vinylpyrrolidone-co-dimethyl maleic acid) as a novel renal targeting carrier. <i>Journal of Controlled Release</i> , 2004, 95, 229-237.	4.8	39
36	A Novel Bispecific Antibody against Human CD3 and Ephrin Receptor A10 for Breast Cancer Therapy. <i>PLoS ONE</i> , 2015, 10, e0144712.	1.1	39

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37	Protective role of activated protein C in lung and airway remodeling. <i>Critical Care Medicine</i> , 2004, 32, S262-S265.	0.4	38
38	Proteomic analysis of the hippocampus in Alzheimer's disease model mice by using two-dimensional fluorescence difference in gel electrophoresis. <i>Neuroscience Letters</i> , 2013, 534, 85-89.	1.0	38
39	Molecular Design of Conjugated Tumor Necrosis Factor- α : Synthesis and Characteristics of Polyvinyl Pyrrolidone Modified Tumor Necrosis Factor- α . <i>Biochemical and Biophysical Research Communications</i> , 1999, 257, 448-453.	1.0	34
40	Expression of Eph receptor A10 is correlated with lymph node metastasis and stage progression in breast cancer patients. <i>Cancer Medicine</i> , 2013, 2, 972-977.	1.3	34
41	PEGylation of Interleukin-6 Effectively Increases Its Thrombopoietic Potency. <i>Thrombosis and Haemostasis</i> , 1997, 77, 168-173.	1.8	34
42	The use of a mutant TNF- α as a vaccine adjuvant for the induction of mucosal immune responses. <i>Biomaterials</i> , 2009, 30, 5869-5876.	5.7	33
43	Creation of Novel Cell-Penetrating Peptides for Intracellular Drug Delivery Using Systematic Phage Display Technology Originated from Tat Transduction Domain. <i>Biological and Pharmaceutical Bulletin</i> , 2007, 30, 218-223.	0.6	32
44	Optimal construction of non-immune scFv phage display libraries from mouse bone marrow and spleen established to select specific scFvs efficiently binding to antigen. <i>Biochemical and Biophysical Research Communications</i> , 2004, 323, 583-591.	1.0	31
45	Development of an antibody proteomics system using a phage antibody library for efficient screening of biomarker proteins. <i>Biomaterials</i> , 2011, 32, 162-169.	5.7	31
46	Molecular design of polyvinylpyrrolidone-conjugated interleukin-6 for enhancement of in vivo thrombopoietic activity in mice. <i>Journal of Controlled Release</i> , 2000, 68, 335-341.	4.8	29
47	Novel TNF- α Receptor 1 Antagonist Treatment Attenuates Arterial Inflammation and Intimal Hyperplasia in Mice. <i>Journal of Atherosclerosis and Thrombosis</i> , 2012, 19, 36-46.	0.9	29
48	In vitro evaluation of blood coagulation activation and microthrombus formation by a microchannel array flow analyzer. <i>Thrombosis Research</i> , 2004, 114, 195-203.	0.8	28
49	Eph receptor A10 has a potential as a target for a prostate cancer therapy. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 545-549.	1.0	27
50	COVID-19 cynomolgus macaque model reflecting human COVID-19 pathological conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	26
51	Quality Enhancement of the Non-immune Phage scFv Library to Isolate Effective Antibodies. <i>Biological and Pharmaceutical Bulletin</i> , 2006, 29, 1325-1330.	0.6	25
52	Creation of Novel Protein Transduction Domain (PTD) Mutants by a Phage Display-Based High-Throughput Screening System. <i>Biological and Pharmaceutical Bulletin</i> , 2006, 29, 1570-1574.	0.6	25
53	Annexin A4 is a possible biomarker for cisplatin susceptibility of malignant mesothelioma cells. <i>Biochemical and Biophysical Research Communications</i> , 2012, 421, 140-144.	1.0	25
54	Organelle-Targeted Delivery of Biological Macromolecules Using the Protein Transduction Domain: Potential Applications for Peptide Aptamer Delivery into the Nucleus. <i>Journal of Molecular Biology</i> , 2008, 380, 777-782.	2.0	24

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55	Evaluation of silica nanoparticle binding to major human blood proteins. <i>Nanoscale Research Letters</i> , 2014, 9, 2493.	3.1	24
56	Cutaneous exposure to agglomerates of silica nanoparticles and allergen results in IgE-biased immune response and increased sensitivity to anaphylaxis in mice. <i>Particle and Fibre Toxicology</i> , 2015, 12, 16.	2.8	22
57	Bioconjugation of Laminin-Related Peptide YIGSR with Polyvinyl Pyrrolidone Increases Its Antimetastatic Effect Due to a Longer Plasma Half-Life. <i>Biochemical and Biophysical Research Communications</i> , 1999, 264, 763-767.	1.0	19
58	Effect of amorphous silica nanoparticles on in vitro RANKL-induced osteoclast differentiation in murine macrophages. <i>Nanoscale Research Letters</i> , 2011, 6, 464.	3.1	19
59	Incorporation of adult organ-derived endothelial cells into tumor blood vessel. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 219-224.	1.0	18
60	Aminopeptidase P3 (APP3), a novel member of the TNF/TNFR2 signaling complex, induces phosphorylation of JNK. <i>Journal of Cell Science</i> , 2015, 128, 656-69.	1.2	18
61	In Vitro Remodeling of Tumor Vascular Endothelial Cells Using Conditioned Medium from Various Tumor Cells and Their Sensitivity to TNF- α . <i>Biochemical and Biophysical Research Communications</i> , 2000, 268, 809-813.	1.0	16
62	TNF superfamily member, TL1A, is a potential mucosal vaccine adjuvant. <i>Biochemical and Biophysical Research Communications</i> , 2009, 384, 296-300.	1.0	16
63	Generation and characterization of a bispecific diabody targeting both EPH receptor A10 and CD3. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 908-912.	1.0	16
64	Fast Binding Kinetics and Conserved 3D Structure Underlie the Antagonistic Activity of Mutant TNF: Useful Information for Designing Artificial Proteo-Antagonists. <i>Journal of Biochemistry</i> , 2009, 146, 167-172.	0.9	15
65	Fine tuning of receptor-selectivity for tumor necrosis factor- α using a phage display system with one-step competitive panning. <i>Biomaterials</i> , 2011, 32, 5498-5504.	5.7	15
66	Hemopexin as biomarkers for analyzing the biological responses associated with exposure to silica nanoparticles. <i>Nanoscale Research Letters</i> , 2012, 7, 555.	3.1	15
67	Urban Aerosols Induce Pro-inflammatory Cytokine Production in Macrophages and Cause Airway Inflammation in Vivo. <i>Biological and Pharmaceutical Bulletin</i> , 2010, 33, 780-783.	0.6	14
68	Size and surface modification of amorphous silica particles determine their effects on the activity of human CYP3A4 in vitro. <i>Nanoscale Research Letters</i> , 2014, 9, 651.	3.1	14
69	A trimeric structural fusion of an antagonistic tumor necrosis factor- α mutant enhances molecular stability and enables facile modification. <i>Journal of Biological Chemistry</i> , 2017, 292, 6438-6451.	1.6	14
70	Effective accumulation of poly(vinylpyrrolidone-co-vinyl laurate) into the spleen. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 219-223.	3.0	12
71	Characterization of a TNFR2-Selective Agonistic TNF- α Mutant and Its Derivatives as an Optimal Regulatory T Cell Expander. <i>Journal of Immunology</i> , 2021, 206, 1740-1751.	0.4	12
72	Simple and highly sensitive assay system for TNFR2-mediated soluble- and transmembrane-TNF activity. <i>Journal of Immunological Methods</i> , 2008, 335, 71-78.	0.6	11

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73	Crystallization and preliminary X-ray analysis of the tumour necrosis factor β –tumour necrosis factor receptor type 2 complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 295-298.	0.7	10
74	Potential adjuvant effect of intranasal urban aerosols in mice through induction of dendritic cell maturation. <i>Toxicology Letters</i> , 2010, 199, 383-388.	0.4	10
75	Improved protein sequence coverage by on resin deglycosylation and cysteine modification for biomarker discovery. <i>Proteomics</i> , 2009, 9, 783-787.	1.3	9
76	The augmentation of intracellular delivery of peptide therapeutics by artificial protein transduction domains. <i>Biomaterials</i> , 2009, 30, 3318-3323.	5.7	9
77	Promotion of Optimized Protein Therapy by Bioconjugation as a Polymeric DDS. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2006, 6, 251-258.	0.9	8
78	Limited expression of reticulocalbin-1 in lymphatic endothelial cells in lung tumor but not in normal lung. <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 610-614.	1.0	8
79	Role of amino acid residue 90 in bioactivity and receptor binding capacity of tumor necrosis factor mutants. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2007, 1774, 1029-1035.	1.1	7
80	Novel protein engineering strategy for creating highly receptor-selective mutant TNFs. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 667-671.	1.0	7
81	Creation of mouse TNFR2-selective agonistic TNF mutants using a phage display technique. <i>Biochemistry and Biophysics Reports</i> , 2016, 7, 309-315.	0.7	7
82	Modifying the Surface of Silica Nanoparticles with Amino or Carboxyl Groups Decreases Their Cytotoxicity to Parenchymal Hepatocytes. <i>Biological and Pharmaceutical Bulletin</i> , 2017, 40, 726-728.	0.6	7
83	Structural optimization of a TNFR1-selective antagonistic TNF β mutant to create new-modality TNF-regulating biologics. <i>Journal of Biological Chemistry</i> , 2020, 295, 9379-9391.	1.6	7
84	A novel method for construction of gene fragment library to searching epitopes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 198-204.	1.0	6
85	Selective Enhancer of Tumor Vascular Permeability for Optimization of Cancer Chemotherapy. <i>Biological and Pharmaceutical Bulletin</i> , 2004, 27, 437-439.	0.6	5
86	An in vitro method for screening anti-platelet agents using a microchannel array flow analyzer. <i>Biorheology</i> , 2010, 47, 153-161.	1.2	5
87	Generation of mouse macrophages expressing membrane-bound TNF variants with selectivity for TNFR1 or TNFR2. <i>Cytokine</i> , 2010, 50, 75-83.	1.4	5
88	Anti-inflammatory Effects of a Novel TNFR1-Selective Antagonistic TNF Mutant on Established Murine Collagen-Induced Arthritis. <i>Advances in Experimental Medicine and Biology</i> , 2011, 691, 493-500.	0.8	5
89	Arsenic Trioxide Inhibits Human T Cell-Lymphotropic Virus-1-Induced Syncytiums by Down-Regulating gp46. <i>Biological and Pharmaceutical Bulletin</i> , 2009, 32, 1286-1288.	0.6	2
90	Identification of New Candidates as Mucosal Vaccine Adjuvant in TNF Family Cytokines. <i>Advances in Experimental Medicine and Biology</i> , 2011, 691, 299-304.	0.8	1

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91	Creation of a mutant IFN- λ 8 with enhanced anti-HCV activity using the phage display technique. Cytokine, 2009, 48, 58.	1.4	0
92	Search for drug discovery targets focusing on cancer stroma. Translational and Regulatory Sciences, 2019, 1, 58-65.	0.2	0