Masanori Horie

List of Publications by Year
in descending order

115	4,007	117625	128289
papers	citations	34 h-index	60 g-index

117	117	117	6146
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Protein Adsorption of Ultrafine Metal Oxide and Its Influence on Cytotoxicity toward Cultured Cells. Chemical Research in Toxicology, 2009, 22, 543-553.	3.3	245
2	toxB Gene on pO157 of Enterohemorrhagic Escherichia coli O157:H7 Is Required for Full Epithelial Cell Adherence Phenotype. Infection and Immunity, 2001, 69, 6660-6669.	2.2	200
3	Antioxidative and Antidiabetic Effects of Natural Polyphenols and Isoflavones. Molecules, 2016, 21, 708.	3.8	185
4	In Vitro Evaluation of Cellular Response Induced by Manufactured Nanoparticles. Chemical Research in Toxicology, 2012, 25, 605-619.	3.3	163
5	Association of zinc ion release and oxidative stress induced by intratracheal instillation of ZnO nanoparticles to rat lung. Chemico-Biological Interactions, 2012, 198, 29-37.	4.0	158
6	Association of the physical and chemical properties and the cytotoxicity of metal oxide nanoparticles: metal ion release, adsorption ability and specific surface area. Metallomics, 2012, 4, 350.	2.4	156
7	Ultrafine NiO Particles Induce Cytotoxicity in Vitro by Cellular Uptake and Subsequent Ni(II) Release. Chemical Research in Toxicology, 2009, 22, 1415-1426.	3.3	133
8	Inhaled Fine Particles Induce Alveolar Macrophage Death and Interleukin-1Î± Release to Promote Inducible Bronchus-Associated Lymphoid Tissue Formation. Immunity, 2016, 45, 1299-1310.	14.3	110
9	Reliable size determination of nanoparticles using dynamic light scattering method for in vitro toxicology assessment. Toxicology in Vitro, 2009, 23, 927-934.	2.4	96
10	Photothermic regulation of gene expression triggered by laser-induced carbon nanohorns. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7523-7528.	7.1	96
11	Comparative analysis of the intestinal flora in type 2 diabetes and nondiabetic mice. Experimental Animals, 2017, 66, 405-416.	1.1	94
12	Evaluation of Acute Oxidative Stress Induced by NiO Nanoparticles In Vivo and In Vitro. Journal of Occupational Health, 2011, 53, 64-74.	2.1	93
13	Inhalation Toxicity Assessment of Carbon-Based Nanoparticles. Accounts of Chemical Research, 2013, 46, 770-781.	15.6	90
14	Role of oxidative stress in nanoparticles toxicity. Free Radical Research, 2021, 55, 331-342.	3.3	90
15	Cellular responses induced by cerium oxide nanoparticles: induction of intracellular calcium level and oxidative stress on culture cells. Journal of Biochemistry, 2011, 150, 461-471.	1.7	88
16	Gene expression profiles in rat lung after inhalation exposure to C60 fullerene particles. Toxicology, 2009, 258, 47-55.	4.2	87
17	Assessment of antioxidant capacity for scavenging free radicals in vitro: A rational basis and practical application. Free Radical Biology and Medicine, 2012, 52, 1242-1252.	2.9	82
18	Comparison of pulmonary inflammatory responses following intratracheal instillation and inhalation of nanoparticles. Nanotoxicology, 2016, 10, 607-618.	3.0	73

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19	Chromium(III) oxide nanoparticles induced remarkable oxidative stress and apoptosis on culture cells. Environmental Toxicology, 2013, 28, 61-75.	4.0	70
20	Attenuation of lipopolysaccharide (LPS)-induced cytotoxicity by tocopherols and tocotrienols. Redox Biology, 2013, 1, 97-103.	9.0	69
21	Comparison of acute oxidative stress on rat lung induced by nano and fine-scale, soluble and insoluble metal oxide particles: NiO and TiO₂. Inhalation Toxicology, 2012, 24, 391-400.	1.6	61
22	Effects of ultrafine TiO2 particles on gene expression profile in human keratinocytes without illumination: Involvement of extracellular matrix and cell adhesion. Toxicology Letters, 2009, 191, 109-117.	0.8	59
23	Toxicity of Metal Oxides Nanoparticles. Advances in Molecular Toxicology, 2011, 5, 145-178.	0.4	52
24	Cellular responses by stable and uniform ultrafine titanium dioxide particles in culture-medium dispersions when secondary particle size was 100nm or less. Toxicology in Vitro, 2010, 24, 1629-1638.	2.4	49
25	Dispersion characteristics of various metal oxide secondary nanoparticles in culture medium for in vitro toxicology assessment. Toxicology in Vitro, 2010, 24, 1009-1018.	2.4	48
26	In vitro evaluation of cellular responses induced by stable fullerene C60 medium dispersion. Journal of Biochemistry, 2010, 148, 289-298.	1.7	45
27	Pulmonary toxicity of well-dispersed titanium dioxide nanoparticles following intratracheal instillation. Journal of Nanoparticle Research, 2015, 17, 241.	1.9	45
28	Intratracheal instillation of single-wall carbon nanotubes in the rat lung induces time-dependent changes in gene expression. Nanotoxicology, 2015, 9, 290-301.	3.0	44
29	Pulmonary toxicity of well-dispersed single-wall carbon nanotubes after inhalation. Nanotoxicology, 2012, 6, 766-775.	3.0	43
30	Evaluation of cellular influences of platinum nanoparticles by stable medium dispersion. Metallomics, 2011, 3, 1244.	2.4	39
31	Cellular effects of manufactured nanoparticles: effect of adsorption ability of nanoparticles. Archives of Toxicology, 2013, 87, 771-781.	4.2	39
32	Chemistry of Lipid Peroxidation Products and Their Use as Biomarkers in Early Detection of Diseases. Journal of Oleo Science, 2015, 64, 347-356.	1.4	37
33	Dose-dependent pulmonary response of well-dispersed titanium dioxide nanoparticles following intratracheal instillation. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	35
34	Evaluation of cellular influences induced by stable nanodiamond dispersion; the cellular influences of nanodiamond are small. Diamond and Related Materials, 2012, 24, 15-24.	3.9	34
35	Ascorbic acid attenuates acute pulmonary oxidative stress and inflammation caused by zinc oxide nanoparticles. Journal of Occupational Health, 2015, 57, 118-125.	2.1	34
36	Does photocatalytic activity of TiO₂ nanoparticles correspond to photo-cytotoxicity? Cellular uptake of TiO₂ nanoparticles is important in their photo-cytotoxicity. Toxicology Mechanisms and Methods, 2016, 26, 284-294.	2.7	34

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37	Evaluation of cellular influences caused by calcium carbonate nanoparticles. Chemico-Biological Interactions, 2014, 210, 64-76.	4.0	33
38	In vitro evaluation of the cellular effect of indium tin oxide nanoparticles using the human lung adenocarcinoma A549 cells. Metallomics, 2015, 7, 816-827.	2.4	33
39	Intracellular accumulation of indium ions released from nanoparticles induces oxidative stress, proinflammatory response and DNA damage. Journal of Biochemistry, 2016, 159, 225-237.	1.7	33
40	Antioxidant action of sugar-pendant C60 fullerenes. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 5902-5904.	2.2	28
41	Preparation and characterization of stable dispersions of carbon black and nanodiamond in culture medium for in vitro toxicity assessment. Carbon, 2011, 49, 3989-3997.	10.3	28
42	Identification of potential biomarkers from gene expression profiles in rat lungs intratracheally instilled with C60 fullerenes. Toxicology, 2010, 274, 34-41.	4.2	25
43	Dispersant affects the cellular influences of single-wall carbon nanotube: the role of CNT as carrier of dispersants. Toxicology Mechanisms and Methods, 2013, 23, 315-322.	2.7	24
44	Comparison of the Pulmonary Oxidative Stress Caused by Intratracheal Instillation and Inhalation of NiO Nanoparticles when Equivalent Amounts of NiO Are Retained in the Lung. Antioxidants, 2016, 5, 4.	5.1	24
45	Comprehensive measurements of hydroxylinoleate and hydroxyarachidonate isomers in blood samples from primary open-angle glaucoma patients and controls. Scientific Reports, 2019, 9, 2171.	3.3	24
46	Evaluation of biological activities of a groundnut (Apios americana Medik) extract containing a novel isoflavone. Food Chemistry, 2013, 138, 298-305.	8.2	23
47	Physical properties of single-wall carbon nanotubes in cell culture and their dispersal due to alveolar epithelial cell response. Toxicology Mechanisms and Methods, 2013, 23, 598-609.	2.7	23
48	Behavior of surfactants in aqueous dispersions of single-walled carbon nanotubes. RSC Advances, 2013, 4, 2129-2136.	3.6	23
49	Effect of iron overload from multi walled carbon nanotubes on neutrophil-like differentiated HL-60 cells. Scientific Reports, 2019, 9, 2224.	3.3	23
50	Comparison of antioxidant activities among four kinds of Japanese traditional fermented tea. Food Science and Nutrition, 2017, 5, 639-645.	3.4	22
51	Aesthetic Silver-Doped Octacalcium Phosphate Powders Exhibiting Both Contact Antibacterial Ability and Low Cytotoxicity. ACS Omega, 2020, 5, 24434-24444.	3.5	22
52	Pulmonary Toxicity of Well-Dispersed Single-Wall Carbon Nanotubes Following Intratracheal Instillation. Journal of Nano Research, 0, 18-19, 9-25.	0.8	21
53	Aerosol Generation by a Spray-Drying Technique Under Coulomb Explosion and Rapid Evaporation for the Preparation of Aerosol Particles for Inhalation Tests. Aerosol Science and Technology, 2014, 48, 698-705.	3.1	20
54	Antioxidant properties of 5-hydroxy-4-phenyl-butenolide via activation of Nrf2/ARE signaling pathway. Food and Chemical Toxicology, 2017, 107, 129-137.	3.6	20

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55	Pharyngeal aspiration of metal oxide nanoparticles showed potential of allergy aggravation effect to inhaled ovalbumin. Inhalation Toxicology, 2015, 27, 181-190.	1.6	18
56	Effect of calcium carbonate particle shape on phagocytosis and pro-inflammatory response in differentiated THP-1 macrophages. Biochemical and Biophysical Research Communications, 2017, 490, 499-505.	2.1	18
57	Evaluation of probiotic and prebiotic-like effects of <i>Bacillus subtilis</i> BN on growth of lactobacilli. Journal of General and Applied Microbiology, 2018, 64, 26-33.	0.7	17
58	Assessment of harmfulness and biological effect of carbon fiber dust generated during new carbon fiber recycling method. Journal of Hazardous Materials, 2019, 378, 120777.	12.4	17
59	Regional characteristics of <i>Lactobacillus plantarum</i> group strains isolated from two kinds of Japanese post-fermented teas, Ishizuchi-kurocha and Awa-bancha. Bioscience of Microbiota, Food and Health, 2019, 38, 11-22.	1.8	17
60	Evaluation of the biological influence of a stable carbon nanohorn dispersion. Carbon, 2013, 54, 155-167.	10.3	16
61	Pulmonary toxicity of printer toner following inhalation and intratracheal instillation. Inhalation Toxicology, 2013, 25, 679-690.	1.6	16
62	Metal Ion Release of Manufactured Metal Oxide Nanoparticles Is Involved in the Allergic Response to Inhaled Ovalbumin in Mice. Occupational Diseases and Environmental Medicine, 2016, 04, 17-26.	0.3	16
63	Characterization of fullerene colloidal suspension in a cell culture medium for in vitro toxicity assessment. Molecular BioSystems, 2010, 6, 1238.	2.9	15
64	Ascorbic acid prevents zinc oxide nanoparticleâ€“induced intracellular oxidative stress and inflammatory responses. Toxicology and Industrial Health, 2017, 33, 687-695.	1.4	15
65	Validation of metallothionein, interleukin-8, and heme oxygenase-1 as markers for the evaluation of cytotoxicity caused by metal oxide nanoparticles. Toxicology Mechanisms and Methods, 2018, 28, 630-638.	2.7	14
66	Cellular effects of industrial metal nanoparticles and hydrophilic carbon black dispersion. Journal of Toxicological Sciences, 2014, 39, 897-907.	1.5	13
67	Culture-based analysis of fungi in leaves after the primary and secondary fermentation processes during Ishizuchi-kurocha production and lactate assimilation of P. kudriavzevii. International Journal of Food Microbiology, 2019, 306, 108263.	4.7	13
68	Inorganic process for wet silica-doping of calcium phosphate. RSC Advances, 2021, 11, 12330-12335.	3.6	13
69	Reactive oxygen species independent genotoxicity of indium tin oxide nanoparticles triggered by intracellular degradation. Food and Chemical Toxicology, 2018, 118, 264-271.	3.6	12
70	The Truth of Toxicity Caused by Yttrium Oxide Nanoparticles to Yeast Cells. Journal of Nanoscience and Nanotechnology, 2019, 19, 5418-5425.	0.9	12
71	A determination method of pristine multiwall carbon nanotubes in rat lungs after intratracheal instillation exposure by combustive oxidationâ€“nondispersive infrared analysis. Talanta, 2011, 84, 802-808.	5.5	11
72	Cytotoxicity of CdSe-based quantum dots incorporated in glass nanoparticles evaluated using human keratinocyte HaCaT cells. Bioscience, Biotechnology and Biochemistry, 2016, 80, 210-213.	1.3	11

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73	Comparison of the effects of multiwall carbon nanotubes on the epithelial cells and macrophages. Nanotoxicology, 2019, 13, 861-878.	3.0	11
74	Kinematic characteristics during gait in frail older women identified by principal component analysis. Scientific Reports, 2022, 12, 1676.	3.3	11
75	Proteomic characterization of the striatum and midbrain treated with 6-hydroxydopamine: Alteration of 58-kDa glucose-regulated protein and C/EBP homologous protein. Free Radical Research, 2010, 44, 410-421.	3.3	10
76	In vitro evaluation of cellular influences induced by stable fullerene C70 medium dispersion: Induction of cellular oxidative stress. Chemosphere, 2013, 93, 1182-1188.	8.2	10
77	The effect of titanium dioxide (TiO2) nano-objects, and their aggregates and agglomerates greater than 100 nm (NOAA) on microbes under UV irradiation. Chemosphere, 2016, 143, 123-127.	8.2	10
78	Evaluation of lactic acid bacteria and component change during fermentation of Ishizuchiâ€kurocha. Journal of Food Processing and Preservation, 2019, 43, e14186.	2.0	10
79	Anaerobic Induction of Adherence to Laminin in Lactobacillus gasseri Strains by Contact with Solid Surface. Current Microbiology, 2005, 51, 275-282.	2.2	9
80	Analysis of pulmonary surfactant in rat lungs after intratracheal instillation of short and long multi-walled carbon nanotubes. Inhalation Toxicology, 2013, 25, 609-620.	1.6	9
81	Silica layer-dependent leakage of cadmium from CdSe/ZnS quantum dots and comparison of cytotoxicity with polymer-coated analogues. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	9
82	The Impact of the Physiochemical Properties of Manufactured Nanoparticles on In vitro and In vivo Evaluation of Particle Toxicity. , 2014, 2, .		8
83	Evaluation of cellular effects of silicon dioxide nanoparticles. Toxicology Mechanisms and Methods, 2014, 24, 196-203.	2.7	8
84	Changes in lactic acid bacteria and components of Awa-bancha by anaerobic fermentation. Bioscience, Biotechnology and Biochemistry, 2020, 84, 1921-1935.	1.3	8
85	The N-Terminal Region Is Important for the Nuclease Activity and Thermostability of the Flap Endonuclease-1 fromSulfolobus tokodaii. Bioscience, Biotechnology and Biochemistry, 2007, 71, 855-865.	1.3	7
86	A novel sensitive immunoassay method based on the Invader technique. Analytical Biochemistry, 2008, 374, 278-284.	2.4	7
87	The induction of lipid peroxidation during the acute oxidative stress response induced by intratracheal instillation of fine crystalline silica particles in rats. Toxicology and Industrial Health, 2016, 32, 1430-1437.	1.4	7
88	Draft Genome Sequence of Lactobacillus plantarum IYO1511, Isolated from Ishizuchi-Kurocha. Microbiology Resource Announcements, 2020, 9, .	0.6	7
89	Ag-substituted octacalcium phosphate blocks that exhibit high osteoconductivity and high antibacterial activity toward various pathogens. Materials Today Communications, 2022, 30, 103130.	1.9	7
90	The Expression of Inflammatory Cytokine and Heme Oxygenase-1 Genes in THP-1 Cells Exposed to Metal Oxide Nanoparticles. Journal of Nano Research, 2015, 30, 116-127.	0.8	6

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91	Early diagnosis of type 2 diabetes based on multiple biomarkers and non-invasive indices. Journal of Clinical Biochemistry and Nutrition, 2018, 62, 187-194.	1.4	5
92	Development of fibrin hydrogelâ€“based in vitro bioassay system for assessment of skin permeability to and pro-inflammatory activity mediated by zinc ion released from nanoparticles. Analytical and Bioanalytical Chemistry, 2020, 412, 8269-8282.	3.7	5
93	A Gene Expression Profiling Approach to Study the Influence of Ultrafine Particles on Rat Lungs. , 2009, , 219-227.		5
94	Pulmonary Inflammation of Well-Dispersed Multi-Wall Carbon Nanotubes Following Intratracheal Instillation: Toxicity by Fiber of 1â€“5 Âµm in Length. Materials, 2012, 5, 2833-2849.	2.9	4
95	Acceleration of suspending single-walled carbon nanotubes in BSA aqueous solution induced by amino acid molecules. Journal of Colloid and Interface Science, 2015, 437, 156-162.	9.4	4
96	Physicochemical and biological characterizations of Pxt peptides from amphibian (Xenopus tropicalis) skin. Journal of Biochemistry, 2016, 159, 619-629.	1.7	4
97	Comparison of proinflammatory potential of needle-shaped materials: aragonite and potassium titanate whisker. Archives of Toxicology, 2019, 93, 2797-2810.	4.2	4
98	Diversity of Lactic Acid Bacteria Involved in the Fermentation of Awa-bancha. Microbes and Environments, 2021, 36, n/a.	1.6	4
99	Ammonium-to-sodium ion-exchange process at the interlayer of octacalcium phosphate. RSC Advances, 2021, 11, 39503-39507.	3.6	4
100	Draft Genome Sequence of the Yeast Pichia manshurica YM63, a Participant in Secondary Fermentation of Ishizuchi-Kurocha, a Japanese Fermented Tea. Microbiology Resource Announcements, 2019, 8, .	0.6	3
101	Proinflammatory response caused by lead nanoparticles triggered by engulfed nanoparticles. Environmental Toxicology, 2021, 36, 2040-2050.	4.0	3
102	Controlling the microbial composition during the fermentation of Ishizuchi-kurocha. Bioscience, Biotechnology and Biochemistry, 2021, 86, 117-124.	1.3	3
103	Sodium and silver ionic competition for conjugated octacalcium phosphate sites in weak basic solutions. Journal of the Ceramic Society of Japan, 2022, 130, 363-369.	1.1	3
104	Effects of Various Carbon Nanotube Suspensions on A549, THP-1, and Peritoneal Macrophage Cells. Journal of Biomimetics, Biomaterials and Biomedical Engineering, 2015, 24, 1-13.	0.5	2
105	Field Research for Production Method of Miang: Post-Fermented Tea in Thailand. Japan Journal of Food Engineering, 2020, 21, 125-137.	0.3	2
106	Cellular Effects of Silver Nanoparticle Suspensions on Lung Epithelial Cells and Macrophages. Applied Sciences (Switzerland), 2022, 12, 3554.	2.5	2
107	Fabrication of Octacalcium Phosphate Block through the Reaction between CaCO₃ Powder and Phosphate Acid. Chemistry Letters, 2022, 51, 851-853.	1.3	2
108	Cellular Responses Induced by Nanoparticles. Frontiers in Nanobiomedical Research, 2014, , 97-118.	0.1	1

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109	Groundnut (Apios americana Medik) Extract Enhances the Osteoblast Differentiation of MC3T3-E1 Cells. Natural Product Communications, 2021, 16, 1934578X2110105.	0.5	1
110	Prediction of Sodium Substitution Sites in Octacalcium Phosphate: The Relationships of Ionic Pair Ratios in Reacting Solutions. Ceramics, 2021, 4, 240-248.	2.6	1
111	Acute pulmonary oxidative stress and inflammation caused by zinc oxide nanoparticles were prevented by vitamin C. Toxicology Letters, 2014, 229, S239.	0.8	0
112	Pharyngeal aspiration of single-wall carbon nanotubes aggravates allergic reaction to inhaled ovalbumin in mice. Toxicological and Environmental Chemistry, 2017, 99, 134-147.	1.2	0
113	Specific roles of sodium for the formation process of manganese-substituted octacalcium phosphate. American Mineralogist, 2021, , .	1.9	0
114	Effects of Different Bread-making Methods on the Isoflavone Composition of Groundnut Bread. Journal of the Japanese Society for Food Science and Technology, 2017, 64, 542-548.	0.1	0
115	Fabrication of interconnected porous Ag substituted octacalcium phosphate blocks based on a dissolution-precipitation reaction. Journal of Materials Science: Materials in Medicine, 2022, 33, .	3.6	0