

Masakazu Umezawa

List of Publications by Year in descending order

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Version: 2024-02-01

87
papers

2,106
citations

279798

23
h-index

265206

42
g-index

92
all docs

92
docs citations

92
times ranked

2776
citing authors

#	ARTICLE	IF	CITATIONS
1	Maternal exposure to nanoparticulate titanium dioxide during the prenatal period alters gene expression related to brain development in the mouse. <i>Particle and Fibre Toxicology</i> , 2009, 6, 20.	6.2	220
2	Particle toxicology and health - where are we?. <i>Particle and Fibre Toxicology</i> , 2019, 16, 19.	6.2	133
3	Ratiometric near-infrared fluorescence nanothermometry in the OTN-NIR (NIR II/III) biological window based on rare-earth doped Y^{2+} - NaYF_4 nanoparticles. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1917-1925.	5.8	122
4	In utero exposure to a low concentration of diesel exhaust affects spontaneous locomotor activity and monoaminergic system in male mice. <i>Particle and Fibre Toxicology</i> , 2010, 7, 7.	6.2	119
5	Exposure to diesel exhaust during fetal period affects behavior and neurotransmitters in male offspring mice. <i>Journal of Toxicological Sciences</i> , 2013, 38, 13-23.	1.5	63
6	Temperature Sensing of Deep Abdominal Region in Mice by Using Over-1000 nm Near-Infrared Luminescence of Rare-Earth-Doped NaYF_4 Nanothermometer. <i>Scientific Reports</i> , 2018, 8, 16979.	3.3	61
7	Biological Deep Temperature Imaging with Fluorescence Lifetime of Rare-Earth-Doped Ceramics Particles in the Second NIR Biological Window. <i>Scientific Reports</i> , 2019, 9, 12806.	3.3	58
8	Dose-dependent induction of astrocyte activation and reactive astrogliosis in mouse brain following maternal exposure to carbon black nanoparticle. <i>Particle and Fibre Toxicology</i> , 2017, 14, 4.	6.2	57
9	Maternal inhalation of carbon black nanoparticles induces neurodevelopmental changes in mouse offspring. <i>Particle and Fibre Toxicology</i> , 2018, 15, 36.	6.2	53
10	Carbon black nanoparticle exposure during middle and late fetal development induces immune activation in male offspring mice. <i>Toxicology</i> , 2015, 327, 53-61.	4.2	51
11	Effect of fetal exposure to titanium dioxide nanoparticle on brain development in brain region information. <i>Journal of Toxicological Sciences</i> , 2012, 37, 1247-1252.	1.5	46
12	Effects of Maternal Exposure to Ultrafine Carbon Black on Brain Perivascular Macrophages and Surrounding Astrocytes in Offspring Mice. <i>PLoS ONE</i> , 2014, 9, e94336.	2.5	43
13	Evaluation of the testicular toxicity of prenatal exposure to bisphenol A based on microarray analysis combined with MeSH annotation. <i>Journal of Toxicological Sciences</i> , 2012, 37, 539-548.	1.5	41
14	Stabilization of indocyanine green dye in polymeric micelles for NIR-II fluorescence imaging and cancer treatment. <i>Biomaterials Science</i> , 2020, 8, 2245-2254.	5.4	40
15	The potential ameliorative impacts of cerium oxide nanoparticles against fipronil-induced hepatic steatosis. <i>Scientific Reports</i> , 2021, 11, 1310.	3.3	39
16	Potential role of α -lipoic acid and Ginkgo biloba against silver nanoparticles-induced neuronal apoptosis and blood-brain barrier impairments in rats. <i>Life Sciences</i> , 2018, 212, 251-260.	4.3	38
17	Cytokine and chemokine expression in a rat endometriosis is similar to that in human endometriosis. <i>Cytokine</i> , 2008, 43, 105-109.	3.2	34
18	Prenatal diesel exhaust exposure disrupts the DNA methylation profile in the brain of mouse offspring. <i>Journal of Toxicological Sciences</i> , 2015, 40, 1-11.	1.5	32

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19	Maternal exposure to carbon black nanoparticle increases collagen type VIII expression in the kidney of offspring. <i>Journal of Toxicological Sciences</i> , 2011, 36, 461-468.	1.5	31
20	Efficacy of α -lipoic acid against cadmium toxicity on metal ion and oxidative imbalance, and expression of metallothionein and antioxidant genes in rabbit brain. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24593-24601.	5.3	29
21	Effect of aerosol particles generated by ultrasonic humidifiers on the lung in mouse. <i>Particle and Fibre Toxicology</i> , 2013, 10, 64.	6.2	27
22	Delayed Increase in Near-Infrared Fluorescence in Cultured Murine Cancer Cells Labeled with Oxygen-Doped Single-Walled Carbon Nanotubes. <i>Langmuir</i> , 2019, 35, 831-837.	3.5	26
23	Carbon nanoparticles induce endoplasmic reticulum stress around blood vessels with accumulation of misfolded proteins in the developing brain of offspring. <i>Scientific Reports</i> , 2020, 10, 10028.	3.3	26
24	Synthesis and Anticancer Properties of Bis- and Mono(cationic peptide) Hybrids of Cyclometalated Iridium(III) Complexes: Effect of the Number of Peptide Units on Anticancer Activity. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 1796-1814.	2.0	24
25	Microarray analysis provides insight into the early steps of pathophysiology of mouse endometriosis model induced by autotransplantation of endometrium. <i>Life Sciences</i> , 2009, 84, 832-837.	4.3	23
26	Perivascular Accumulation of β -Sheet-Rich Proteins in Offspring Brain following Maternal Exposure to Carbon Black Nanoparticles. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 92.	3.7	23
27	Pathological study for the effects of in utero and postnatal exposure to diesel exhaust on a rat endometriosis model. <i>Journal of Toxicological Sciences</i> , 2011, 36, 493-498.	1.5	22
28	Effect of maternal exposure to carbon black nanoparticle during early gestation on the splenic phenotype of neonatal mouse. <i>Journal of Toxicological Sciences</i> , 2014, 39, 571-578.	1.5	22
29	Early Development Origins of Adult Disease Caused by Malnutrition and Environmental Chemical Substances. <i>Journal of Health Science</i> , 2009, 55, 11-19.	0.9	21
30	Gene Expression Changes in the Olfactory Bulb of Mice Induced by Exposure to Diesel Exhaust Are Dependent on Animal Rearing Environment. <i>PLoS ONE</i> , 2013, 8, e70145.	2.5	21
31	Pretreatment with N-acetyl cysteine suppresses chronic reactive astrogliosis following maternal nanoparticle exposure during gestational period. <i>Nanotoxicology</i> , 2017, 11, 1012-1025.	3.0	20
32	In-ovo exposed carbon black nanoparticles altered mRNA gene transcripts of antioxidants, proinflammatory and apoptotic pathways in the brain of chicken embryos. <i>Chemico-Biological Interactions</i> , 2018, 295, 133-139.	4.0	20
33	Chemo-Protective Potential of Cerium Oxide Nanoparticles against Fipronil-Induced Oxidative Stress, Apoptosis, Inflammation and Reproductive Dysfunction in Male White Albino Rats. <i>Molecules</i> , 2020, 25, 3479.	3.8	20
34	Global Air Quality and COVID-19 Pandemic: Do We Breathe Cleaner Air?. <i>Aerosol and Air Quality Research</i> , 2021, 21, 200567.	2.1	20
35	Expression Profile of Extracellular Matrix and Adhesion Molecules in the Development of Endometriosis in a Mouse Model. <i>Reproductive Sciences</i> , 2012, 19, 1365-1372.	2.5	19
36	In utero exposure of mice to diesel exhaust particles affects spatial learning and memory with reduced N-methyl-d-aspartate receptor expression in the hippocampus of male offspring. <i>NeuroToxicology</i> , 2015, 50, 108-115.	3.0	19

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37	Amphiphilic Cationic Triscyclometalated Iridium(III) Complex- α -Peptide Hybrids Induce Paraptosis-like Cell Death of Cancer Cells via an Intracellular Ca^{2+} -Dependent Pathway. ACS Omega, 2020, 5, 6983-7001.	3.5	19
38	Distinction of surgically resected gastrointestinal stromal tumor by near-infrared hyperspectral imaging. Scientific Reports, 2020, 10, 21852.	3.3	18
39	Identification of hepatic NPC1L1 as an NAFLD risk factor evidenced by ezetimibe-mediated steatosis prevention and recovery. FASEB BioAdvances, 2019, 1, 283-295.	2.4	17
40	Upconversion Luminescent Nanostructure with Ultrasmall Ceramic Nanoparticles Coupled with Rose Bengal for NIR-Induced Photodynamic Therapy. ACS Applied Bio Materials, 2021, 4, 4462-4469.	4.6	16
41	Ameliorative Role of Cerium Oxide Nanoparticles Against Fipronil Impact on Brain Function, Oxidative Stress, and Apoptotic Cascades in Albino Rats. Frontiers in Neuroscience, 2021, 15, 651471.	2.8	16
42	Cyclometalated Iridium(III) Complex- α -Cationic Peptide Hybrids Trigger Paraptosis in Cancer Cells via an Intracellular Ca^{2+} Overload from the Endoplasmic Reticulum and a Decrease in Mitochondrial Membrane Potential. Molecules, 2021, 26, 7028.	3.8	16
43	Diesel Exhaust Exposure Enhances the Persistence of Endometriosis Model in Rats. Journal of Health Science, 2008, 54, 503-507.	0.9	15
44	Evaluation of testicular toxicology of doxorubicin based on microarray analysis of testicular specific gene expression. Journal of Toxicological Sciences, 2011, 36, 559-567.	1.5	15
45	Size-controlled bimodal <i>in vivo</i> nanoprobe as near-infrared phosphors and positive contrast agents for magnetic resonance imaging. Science and Technology of Advanced Materials, 2021, 22, 160-172.	6.1	14
46	Effects of Processing pH on Emission Intensity of Over-1000 nm Near-Infrared Fluorescence of Dye-Loaded Polymer Micelle with Polystyrene Core. Analytical Sciences, 2021, 37, 485-489.	1.6	14
47	Visualization of quantitative lipid distribution in mouse liver through near-infrared hyperspectral imaging. Biomedical Optics Express, 2021, 12, 823.	2.9	12
48	Design of Over-1000 nm Near-Infrared Fluorescent Polymeric Micellar Nanoparticles by Matching the Solubility Parameter of the Core Polymer and Dye. ACS Nanoscience Au, 2021, 1, 61-68.	4.8	12
49	Induction of Paraptosis by Cyclometalated Iridium Complex-Peptide Hybrids and CGP37157 via a Mitochondrial Ca^{2+} Overload Triggered by Membrane Fusion between Mitochondria and the Endoplasmic Reticulum. Biochemistry, 2022, 61, 639-655.	2.5	12
50	The ceramide inhibitor fumonisin B1 mitigates the pulmonary effects of low-dose diesel exhaust inhalation in mice. Ecotoxicology and Environmental Safety, 2016, 132, 390-396.	6.0	11
51	Designing highly emissive over-1000 nm near-infrared fluorescent dye-loaded polystyrene-based nanoparticles for <i>in vivo</i> deep imaging. RSC Advances, 2021, 11, 18930-18937.	3.6	11
52	Clarithromycin and telithromycin increases interleukin-10 expression in the rat endometriosis model. Cytokine, 2011, 55, 339-342.	3.2	10
53	Fluorescent Polystyrene Latex Nanoparticles for NIR-II <i>in vivo</i> Imaging. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 93-96.	0.3	10
54	Photostabilization of Indocyanine Green Dye by Energy Transfer in Phospholipid-PEG Micelles. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 115-121.	0.3	10

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55	Computed tomography for in vivo deep over-1000-nm near-infrared fluorescence imaging. <i>Journal of Biophotonics</i> , 2020, 13, e202000071.	2.3	10
56	The influence of Gd-DOTA conjugating ratios to PLGA-PEG micelles encapsulated IR-1061 on bimodal over-1000 nm near-infrared fluorescence and magnetic resonance imaging. <i>Biomaterials Science</i> , 2022, 10, 1217-1230.	5.4	10
57	Dysregulation of major functional genes in frontal cortex by maternal exposure to carbon black nanoparticle is not ameliorated by ascorbic acid pretreatment. <i>Science of the Total Environment</i> , 2018, 634, 1126-1135.	8.0	9
58	Impact of diesel exhaust exposure on the liver of mice fed on omega-3 polyunsaturated fatty acids-deficient diet. <i>Food and Chemical Toxicology</i> , 2018, 111, 284-294.	3.6	9
59	Effect of polarization of surrounding organic molecules on upconversion emission of Er^{3+} -NaYF ₄ Co-Doped with Er ³⁺ and Yb ³⁺ . <i>Journal of Luminescence</i> , 2021, 239, 118394.	3.1	9
60	Over 1000 nm Near-Infrared Multispectral Imaging System for Laparoscopic In Vivo Imaging. <i>Sensors</i> , 2021, 21, 2649.	3.8	8
61	Review "Concept and Application of Thermal Phenomena at 4f Electrons of Trivalent Lanthanide Ions in Organic/Inorganic Hybrid Nanostructure. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 096006.	1.8	8
62	Effects of Prenatal Exposure to Titanium Dioxide Nanoparticles on DNA Methylation and Gene Expression Profile in the Mouse Brain. <i>Frontiers in Toxicology</i> , 2021, 3, 705910.	3.1	8
63	Effect of high-fat diet prior to pregnancy on hepatic gene expression and histology in mouse offspring. <i>Journal of Perinatal Medicine</i> , 2014, 42, 83-91.	1.4	7
64	Associations Between Metal Levels in Whole Blood and IgE Concentrations in Pregnant Women Based on Data From the Japan Environment and Children's Study. <i>Journal of Epidemiology</i> , 2019, 29, 478-486.	2.4	7
65	Rapid increase in transparency of biological organs by matching refractive index of medium to cell membrane using phosphoric acid. <i>RSC Advances</i> , 2019, 9, 15269-15276.	3.6	7
66	Infrared to visible upconversion luminescence of trivalent erbium tetrafluoroborate complexes. <i>Optical Materials Express</i> , 2020, 10, 1749.	3.0	7
67	Development of Molecular Imaging Probe for Dual NIR/MR Imaging. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2020, 33, 117-122.	0.3	7
68	Maternal administration of nanomaterials elicits hemoglobin upregulation in the neonatal brain of non-human primates. <i>Journal of Toxicological Sciences</i> , 2016, 41, 265-271.	1.5	6
69	Nrf2 Lowers the Risk of Lung Injury via Modulating the Airway Innate Immune Response Induced by Diesel Exhaust in Mice. <i>Biomedicines</i> , 2020, 8, 443.	3.2	6
70	Near Infrared Fluorescent Nanostructure Design for Organic/Inorganic Hybrid System. <i>Biomedicines</i> , 2021, 9, 1583.	3.2	6
71	Design, Synthesis, and Anticancer Activity of Triptycene "Peptide Hybrids that Induce Paraptotic Cell Death in Cancer Cells. <i>Bioconjugate Chemistry</i> , 2022, 33, 691-717.	3.6	6
72	Effects of hydrophilic/hydrophobic blocks ratio of PEG-b-PLGA on emission intensity and stability of over-1000-nm near-infrared (NIR-II) fluorescence dye-loaded polymeric micellar nanoparticles. <i>Analytical Sciences</i> , 2022, 38, 199-205.	1.6	5

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73	Efficacy and safety of a combination regimen of phenothrin and ivermectin lotion in patients with head lice in Okinawa, Japan. <i>Journal of Dermatology</i> , 2020, 47, 720-727.	1.2	4
74	Changes in the Secondary Structure and Assembly of Proteins on Fluoride Ceramic (CeF ₃) Nanoparticle Surfaces. <i>ACS Applied Bio Materials</i> , 2022, 5, 2843-2850.	4.6	4
75	Heat Treatment Effects for Controlling Dye Molecular States in the Hydrophobic Core of Over-1000 nm Near-Infrared (NIR-II) Fluorescent Micellar Nanoparticles. <i>ACS Omega</i> , 2022, 7, 5817-5824.	3.5	3
76	Novel insights into pathology of endometriosis from a disease model induced by autotransplantation of endometrium. <i>Inflammation and Regeneration</i> , 2010, 30, 115-119.	3.7	2
77	Nanothermometry for Deep Tissues by Using Near-Infrared Fluorophores. , 2021, , 139-166.		2
78	Energy Transfer Between Rare Earth-doped Ceramic Nanoparticles for Gauging Strain and Temperature in Elastic Polymers. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2020, 33, 129-137.	0.3	2
79	Influence of the difference in refractive index on the interface of an object and the surroundings in near-infrared fluorescence tomography. <i>Applied Optics</i> , 2022, 61, 638.	1.8	2
80	Effect of the enantiomeric structure of hydrophobic polymers on the encapsulation properties of a second near infrared (NIR-II) fluorescent dye for in vivo deep imaging. <i>RSC Advances</i> , 2022, 12, 1310-1318.	3.6	2
81	Effect of Carbon Black Nanoparticle on Neonatal Lymphoid Tissues Depending on the Gestational Period of Exposure in Mice. <i>Frontiers in Toxicology</i> , 2021, 3, 700392.	3.1	1
82	Efficacy and safety of a modified combination regimen of phenothrin and ivermectin lotion in patients with head lice in Tsukuba, Japan. <i>Journal of Cutaneous Immunology and Allergy</i> , 2021, 4, 4-12.	0.3	1
83	Carbon Nanotubes’ Potential of Use for Deep Bioimaging. , 2021, , 85-107.		1
84	Infrared to visible upconversion luminescence of trivalent erbium tetrafluoroborate complexes. <i>Optical Materials Express</i> , 2020, 10, 1749.	3.0	1
85	Polymer-Based Near-Infrared Afterglow Fluorescent Complex of Dye and Rare-Earth-Doped Ceramics. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2021, 34, 7-10.	0.3	1
86	A Novel Staining Method for Detection of Brain Perivascular Injuries Induced by Nanoparticle: Periodic Acid-Schiff and Immunohistochemical Double-Staining. <i>Frontiers in Toxicology</i> , 2022, 4, 825984.	3.1	1
87	Editorial: Mechanisms of Developmental and Reproductive Toxicology of Ultrafine and Nano-Sized Particles. <i>Frontiers in Toxicology</i> , 2022, 4, 853506.	3.1	0