

# 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	Effects of hydrophilic/hydrophobic blocks ratio of PEG-b-PLGA on emission intensity and stability of over-1000Ånm near-infrared (NIR-II) fluorescence dye-loaded polymeric micellar nanoparticles. <i>Analytical Sciences</i> , 2022, 38, 199-205.	1.6	5
2	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
3	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
4	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
5	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
6	Editorial: Mechanisms of Developmental and Reproductive Toxicology of Ultrafine and Nano-Sized Particles. <i>Frontiers in Toxicology</i> , 2022, 4, 853506.	3.1	0
7	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
8	Induction of Paraptosis by Cyclometalated Iridium Complex-Peptide Hybrids and CGP37157 via a Mitochondrial Ca <sup>2+</sup> Overload Triggered by Membrane Fusion between Mitochondria and the Endoplasmic Reticulum. <i>Biochemistry</i> , 2022, 61, 639-655.	2.5	12
9	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
10	Changes in the Secondary Structure and Assembly of Proteins on Fluoride Ceramic (CeF <sub>3</sub> ) Nanoparticle Surfaces. <i>ACS Applied Bio Materials</i> , 2022, 5, 2843-2850.	4.6	4
11	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
12	The potential ameliorative impacts of cerium oxide nanoparticles against fipronil-induced hepatic steatosis. <i>Scientific Reports</i> , 2021, 11, 1310.	3.3	39
13	Size-controlled bimodal <i>in vivo</i> nanoprobe as near-infrared phosphors and positive contrast agents for magnetic resonance imaging. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 160-172.	6.1	14
14	Effects of Processing pH on Emission Intensity of Over-1000 nm Near-Infrared Fluorescence of Dye-Loaded Polymer Micelle with Polystyrene Core. <i>Analytical Sciences</i> , 2021, 37, 485-489.	1.6	14
15	Over 1000 nm Near-Infrared Multispectral Imaging System for Laparoscopic In Vivo Imaging. <i>Sensors</i> , 2021, 21, 2649.	3.8	8
16	Upconversion Luminescent Nanostructure with Ultrasmall Ceramic Nanoparticles Coupled with Rose Bengal for NIR-Induced Photodynamic Therapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 4462-4469.	4.6	16
17	Ameliorative Role of Cerium Oxide Nanoparticles Against Fipronil Impact on Brain Function, Oxidative Stress, and Apoptotic Cascades in Albino Rats. <i>Frontiers in Neuroscience</i> , 2021, 15, 651471.	2.8	16
18	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

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19	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
20	Review of 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
21	Effect of polarization of surrounding organic molecules on upconversion emission of $\text{Er}^{3+}$ -NaYF <sub>4</sub> Co-Doped with $\text{Er}^{3+}$ and $\text{Yb}^{3+}$ . <i>Journal of Luminescence</i> , 2021, 239, 118394.	3.1	9
22	Designing highly emissive over-1000 nm near-infrared fluorescent dye-loaded polystyrene-based nanoparticles for in vivo deep imaging. <i>RSC Advances</i> , 2021, 11, 18930-18937.	3.6	11
23	Visualization of quantitative lipid distribution in mouse liver through near-infrared hyperspectral imaging. <i>Biomedical Optics Express</i> , 2021, 12, 823.	2.9	12
24	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
25	Design of Over-1000 nm Near-Infrared Fluorescent Polymeric Micellar Nanoparticles by Matching the Solubility Parameter of the Core Polymer and Dye. <i>ACS Nanoscience Au</i> , 2021, 1, 61-68.	4.8	12
26	Near Infrared Fluorescent Nanostructure Design for Organic/Inorganic Hybrid System. <i>Biomedicines</i> , 2021, 9, 1583.	3.2	6
27	Nanothermometry for Deep Tissues by Using Near-Infrared Fluorophores. , 2021, , 139-166.		2
28	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
29	Carbon Nanotubes Potential of Use for Deep Bioimaging. , 2021, , 85-107.		1
30	Cyclometalated Iridium(III) Complex-Cationic Peptide Hybrids Trigger Paraptosis in Cancer Cells via an Intracellular $\text{Ca}^{2+}$ Overload from the Endoplasmic Reticulum and a Decrease in Mitochondrial Membrane Potential. <i>Molecules</i> , 2021, 26, 7028.	3.8	16
31	Polymer-Based Near-Infrared Afterglow Fluorescent Complex of Dye and Rare-Earth-Doped Ceramics. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2021, 34, 7-10.	0.3	1
32	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
33	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
34	Distinction of surgically resected gastrointestinal stromal tumor by near-infrared hyperspectral imaging. <i>Scientific Reports</i> , 2020, 10, 21852.	3.3	18
35	Computed tomography for in vivo deep over-1000 nm near-infrared fluorescence imaging. <i>Journal of Biophotonics</i> , 2020, 13, e202000071.	2.3	10
36	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

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37	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
38	Amphiphilic Cationic Triscyclometalated Iridium(III) Complexes with Peptide Hybrids Induce Paraptosis-like Cell Death of Cancer Cells via an Intracellular Ca <sup>2+</sup> -Dependent Pathway. <i>ACS Omega</i> , 2020, 5, 6983-7001.	3.5	19
39	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
40	Infrared to visible upconversion luminescence of trivalent erbium tetrafluoroborate complexes. <i>Optical Materials Express</i> , 2020, 10, 1749.	3.0	7
41	Energy Transfer Between Rare Earth-doped Ceramic Nanoparticles for Gauging Strain and Temperature in Elastic Polymers. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2020, 33, 129-137.	0.3	2
42	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
43	Infrared to visible upconversion luminescence of trivalent erbium tetrafluoroborate complexes. <i>Optical Materials Express</i> , 2020, 10, 1749.	3.0	1
44	Biological Deep Temperature Imaging with Fluorescence Lifetime of Rare-Earth-Doped Ceramic Particles in the Second NIR Biological Window. <i>Scientific Reports</i> , 2019, 9, 12806.	3.3	58
45	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
46	Identification of hepatic NPC1L1 as an NAFLD risk factor evidenced by ezetimibe-mediated steatosis prevention and recovery. <i>FASEB BioAdvances</i> , 2019, 1, 283-295.	2.4	17
47	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
48	Particle toxicology and health - where are we?. <i>Particle and Fibre Toxicology</i> , 2019, 16, 19.	6.2	133
49	Fluorescent Polystyrene Latex Nanoparticles for NIR-II <i>in vivo</i> Imaging. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2019, 32, 93-96.	0.3	10
50	Photostabilization of Indocyanine Green Dye by Energy Transfer in Phospholipid-PEG Micelles. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2019, 32, 115-121.	0.3	10
51	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
52	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
53	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
54	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

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55	Temperature Sensing of Deep Abdominal Region in Mice by Using Over-1000 nm Near-Infrared Luminescence of Rare-Earth-Doped NaYF <sub>4</sub> Nanothermometer. <i>Scientific Reports</i> , 2018, 8, 16979.	3.3	61
56	Potential role of $\alpha$ -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
57	Maternal inhalation of carbon black nanoparticles induces neurodevelopmental changes in mouse offspring. <i>Particle and Fibre Toxicology</i> , 2018, 15, 36.	6.2	53
58	Ratiometric near-infrared fluorescence nanothermometry in the OTN-NIR (NIR II/III) biological window based on rare-earth doped $\beta$ -NaYF <sub>4</sub> nanoparticles. <i>Journal of Materials Chemistry B</i> , 2017, 5, 1917-1925.	5.8	122
59	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
60	Efficacy of $\alpha$ -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
61	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
62	Perivascular Accumulation of $\beta$ -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
63	The ceramide inhibitor fumonisin B1 mitigates the pulmonary effects of low-dose diesel exhaust inhalation in mice. <i>Ecotoxicology and Environmental Safety</i> , 2016, 132, 390-396.	6.0	11
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	Gene Expression Changes in the Olfactory Bulb of Mice Induced by Exposure to Diesel Exhaust Are Dependent on Animal Rearing Environment. PLoS ONE, 2013, 8, e70145.	2.5	21
74	Effect of fetal exposure to titanium dioxide nanoparticle on brain development in brain region information. Journal of Toxicological Sciences, 2012, 37, 1247-1252.	1.5	46
75	Evaluation of the testicular toxicity of prenatal exposure to bisphenol A based on microarray analysis combined with MeSH annotation. Journal of Toxicological Sciences, 2012, 37, 539-548.	1.5	41
76	Expression Profile of Extracellular Matrix and Adhesion Molecules in the Development of Endometriosis in a Mouse Model. Reproductive Sciences, 2012, 19, 1365-1372.	2.5	19
77	Clarithromycin and telithromycin increases interleukin-10 expression in the rat endometriosis model. Cytokine, 2011, 55, 339-342.	3.2	10
78	Pathological study for the effects of in utero and postnatal exposure to diesel exhaust on a rat endometriosis model. Journal of Toxicological Sciences, 2011, 36, 493-498.	1.5	22
79	Maternal exposure to carbon black nanoparticle increases collagen type VIII expression in the kidney of offspring. Journal of Toxicological Sciences, 2011, 36, 461-468.	1.5	31
80	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
81	In utero exposure to a low concentration of diesel exhaust affects spontaneous locomotor activity and monoaminergic system in male mice. Particle and Fibre Toxicology, 2010, 7, 7.	6.2	119
82	Novel insights into pathology of endometriosis from a disease model induced by autotransplantation of endometrium. Inflammation and Regeneration, 2010, 30, 115-119.	3.7	2
83	Maternal exposure to nanoparticulate titanium dioxide during the prenatal period alters gene expression related to brain development in the mouse. Particle and Fibre Toxicology, 2009, 6, 20.	6.2	220
84	Microarray analysis provides insight into the early steps of pathophysiology of mouse endometriosis model induced by autotransplantation of endometrium. Life Sciences, 2009, 84, 832-837.	4.3	23
85	Early Development Origins of Adult Disease Caused by Malnutrition and Environmental Chemical Substances. Journal of Health Science, 2009, 55, 11-19.	0.9	21
86	Cytokine and chemokine expression in a rat endometriosis is similar to that in human endometriosis. Cytokine, 2008, 43, 105-109.	3.2	34
87	Diesel Exhaust Exposure Enhances the Persistence of Endometriosis Model in Rats. Journal of Health Science, 2008, 54, 503-507.	0.9	15