

# Toru Yoshitomi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9022979/publications.pdf>

Version: 2024-02-01

72  
papers

1,815  
citations

279487

23  
h-index

276539

41  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembling Antioxidants for Ischemiaâ€“Reperfusion Injuries. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 70-80.	2.5	10
2	PLGAâ€“collagenâ€“BPNS Bifunctional composite mesh for photothermal therapy of melanoma and skin tissue engineering. <i>Journal of Materials Chemistry B</i> , 2022, 10, 204-213.	2.9	17
3	Near-Infrared Light Irradiation of Porphyrin-Modified Gold Nanoparticles Promotes Cancer-Cell-Specific Cytotoxicity. <i>Molecules</i> , 2022, 27, 1238.	1.7	7
4	Three-dimensional culture and chondrogenic differentiation of mesenchymal stem cells in interconnected collagen scaffolds. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 034103.	1.7	6
5	Long-Term Fluorescent Tissue Marking Using Tissue-Adhesive Porphyrin with Polycations Consisting of Quaternary Ammonium Salt Groups. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4218.	1.8	4
6	Preparation of composite scaffolds composed of gelatin and Au nanostar-deposited black phosphorus nanosheets for the photothermal ablation of cancer cells and adipogenic differentiation of stem cells. , 2022, 138, 212938.		4
7	Stepwise Proliferation and Chondrogenic Differentiation of Mesenchymal Stem Cells in Collagen Sponges under Different Microenvironments. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6406.	1.8	4
8	Morphological Dependence of Breast Cancer Cell Responses to Doxorubicin on Micropatterned Surfaces. <i>Polymers</i> , 2022, 14, 2761.	2.0	1
9	Investigations of Chirality Effects on Undifferentiated State of Mesenchymal Stem Cells Using Soft Nanofibrous Oligopeptide Hydrogels. <i>Analytical Sciences</i> , 2021, 37, 539-543.	0.8	5
10	Micropattern-controlled chirality of focal adhesions regulates the cytoskeletal arrangement and gene transfection of mesenchymal stem cells. <i>Biomaterials</i> , 2021, 271, 120751.	5.7	27
11	Design strategy of antidote sequence for bivalent aptamer: Rapid neutralization of highâ€“anticoagulant thrombinâ€“binding bivalent DNA aptamerâ€“linked M08 with HD22. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2021, 5, e12503.	1.0	3
12	Composite scaffolds of black phosphorus nanosheets and gelatin with controlled pore structures for photothermal cancer therapy and adipose tissue engineering. <i>Biomaterials</i> , 2021, 275, 120923.	5.7	27
13	Reduced cytotoxicity of polyethyleneimine by covalent modification of antioxidant and its application to microalgal transformation. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 864-874.	2.8	4
14	Accelerated Discovery of Potent Bioactive antiâ€“TNFÎ± Aptamers by Microbeadâ€“Assisted Capillary Electrophoresis (MACE)â€“SELEX. <i>ChemBioChem</i> , 2021, 22, 3341-3347.	1.3	6
15	Regulation of gene transfection by cell size, shape and elongation on micropatterned surfaces. <i>Journal of Materials Chemistry B</i> , 2021, 9, 4329-4339.	2.9	12
16	Interconnected collagen porous scaffolds prepared with sacrificial PLGA sponge templates for cartilage tissue engineering. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8491-8500.	2.9	28
17	Formation of Spherical Palmelloid Colony with Enhanced Lipid Accumulation by Gel Encapsulation of <i>Chlamydomonas debaryana</i> NIES-2212. <i>Plant and Cell Physiology</i> , 2020, 61, 158-168.	1.5	10
18	MSC Differentiation: Osteogenic and Adipogenic Differentiation of Mesenchymal Stem Cells in Gelatin Solutions of Different Viscosities ( <i>Adv. Healthcare Mater.</i> 23(2020). <i>Advanced Healthcare Materials</i> , 2020, 9, 2070085.	3.9	2

#	ARTICLE	IF	CITATIONS
19	Osteogenic and Adipogenic Differentiation of Mesenchymal Stem Cells in Gelatin Solutions of Different Viscosities. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000617.	3.9	18
20	Characterization and Biosynthesis of Lipids in <i>Paulinella micropora</i> MYN1: Evidence for Efficient Integration of Chromatophores into Cellular Lipid Metabolism. <i>Plant and Cell Physiology</i> , 2020, 61, 869-881.	1.5	19
21	Binding and Structural Properties of DNA Aptamers with VEGF-A-Mimic Activity. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 19, 1145-1152.	2.3	25
22	Screening of DNA Signaling Aptamer from Multiple Candidates Obtained from SELEX with Next-generation Sequencing. <i>Analytical Sciences</i> , 2019, 35, 113-116.	0.8	7
23	Polyethyleneimine-induced astaxanthin accumulation in the green alga <i>Haematococcus pluvialis</i> by increased oxidative stress. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 751-754.	1.1	16
24	High Enrichment of Nucleobase-modified Aptamers in Early Selection Rounds by Microbeads-assisted Capillary Electrophoresis SELEX. <i>Analytical Sciences</i> , 2019, 35, 585-588.	0.8	17
25	Rapidly Neutralizable and Highly Anticoagulant Thrombin-Binding DNA Aptamer Discovered by MACE SELEX. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 16, 348-359.	2.3	53
26	Bone-targeting poly(ethylene sodium phosphate). <i>Biomaterials Science</i> , 2018, 6, 91-95.	2.6	25
27	Label-Free Rapid Separation and Enrichment of Bone Marrow-Derived Mesenchymal Stem Cells from a Heterogeneous Cell Mixture Using a Dielectrophoresis Device. <i>Sensors</i> , 2018, 18, 3007.	2.1	17
28	Analysis of Chirality Effects on Stem Cell Fate Using Three-dimensional Fibrous Peptide Hydrogels. <i>ACS Applied Bio Materials</i> , 2018, 1, 538-543.	2.3	22
29	Noninvasive Fingerprinting-Based Tracking of Replicative Cellular Senescence Using a Colorimetric Polyion Complex Array. <i>Analytical Chemistry</i> , 2018, 90, 6348-6352.	3.2	12
30	Estimation of G-quartet-forming guanines in parallel-type G-quadruplexes by optical spectroscopy measurements of their single-nucleobase substitution sequences. <i>Analyst</i> , The, 2018, 143, 4022-4026.	1.7	2
31	Osteogenic Lineage Commitment of Adipose-Derived Stem Cells Is Predetermined by Three-Dimensional Cell Accumulation on Micropatterned Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 9339-9347.	4.0	18
32	Novel Synthesized Radical-Containing Nanoparticles Limit Infarct Size Following Ischemia and Reperfusion in Canine Hearts. <i>Cardiovascular Drugs and Therapy</i> , 2017, 31, 501-510.	1.3	22
33	Prevention of UV-Induced Melanin Production by Accumulation of Redox Nanoparticles in the Epidermal Layer & via Iontophoresis. <i>Biological and Pharmaceutical Bulletin</i> , 2017, 40, 941-944.	0.6	10
34	Alternation of Gene Expression Levels in Mesenchymal Stein Cells by Applying Positive Dielectrophoresis. <i>Analytical Sciences</i> , 2016, 32, 1213-1216.	0.8	13
35	Redox nanoparticle increases the chemotherapeutic efficiency of pioglitazone and suppresses its toxic side effects. <i>Biomaterials</i> , 2016, 99, 109-123.	5.7	21
36	Recovery of Cognitive Dysfunction via Orally Administered Redox-Polymer Nanotherapeutics in SAMP8 Mice. <i>PLoS ONE</i> , 2015, 10, e0126013.	1.1	33

#	ARTICLE	IF	CITATIONS
37	Development of silica-containing redox nanoparticles for medical applications. <i>Biomaterials Science</i> , 2015, 3, 810-815.	2.6	11
38	Redox nanoparticles as a novel treatment approach for inflammation and fibrosis associated with nonalcoholic steatohepatitis. <i>Nanomedicine</i> , 2015, 10, 2697-2708.	1.7	46
39	Redox nanoparticles inhibit curcumin oxidative degradation and enhance its therapeutic effect on prostate cancer. <i>Journal of Controlled Release</i> , 2015, 209, 110-119.	4.8	52
40	Development of an oral nanotherapeutics using redox nanoparticles for treatment of colitis-associated colon cancer. <i>Biomaterials</i> , 2015, 55, 54-63.	5.7	87
41	The behavior of ROS-scavenging nanoparticles in blood. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2014, 54, 166-173.	0.6	24
42	Indomethacin-loaded redox nanoparticles improve oral bioavailability of indomethacin and suppress its small intestinal inflammation. <i>Therapeutic Delivery</i> , 2014, 5, 29-38.	1.2	18
43	Development of nitroxide radicals-containing polymer for scavenging reactive oxygen species from cigarette smoke. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 035002.	2.8	11
44	Oral nanotherapeutics: effect of redox nanoparticle on microflora in mice with dextran sodium sulfate-induced colitis. <i>Journal of Gastroenterology</i> , 2014, 49, 806-813.	2.3	32
45	Reactive Oxygen Species-Scavenging Nanomedicines for the Treatment of Oxidative Stress Injuries. <i>Advanced Healthcare Materials</i> , 2014, 3, 1149-1161.	3.9	69
46	Design and use of silica-containing redox nanoparticles, siRNPs, for high-performance peritoneal dialysis. <i>Biomaterials Science</i> , 2014, 2, 522.	2.6	13
47	Evaluation of the in vivo antioxidative activity of redox nanoparticles by using a developing chicken egg as an alternative animal model. <i>Journal of Controlled Release</i> , 2014, 182, 67-72.	4.8	13
48	Treatment of oxidative stress injuries using ROS scavenging nanomedicine. <i>Drug Delivery System</i> , 2014, 29, 88-89.	0.0	0
49	Redox nanoparticle therapeutics to cancer – increase in therapeutic effect of doxorubicin, suppressing its adverse effect. <i>Journal of Controlled Release</i> , 2013, 172, 137-143.	4.8	52
50	Redox-active Injectable Gel Using Thermo-responsive Nanoscale Polyion Complex Flower Micelle for Noninvasive Treatment of Local Inflammation. <i>Free Radical Biology and Medicine</i> , 2013, 65, S130.	1.3	0
51	Redox-active injectable gel using thermo-responsive nanoscale polyion complex flower micelle for noninvasive treatment of local inflammation. <i>Journal of Controlled Release</i> , 2013, 172, 914-920.	4.8	45
52	1254 LIVER OXIDATIVE STRESS-SUPPRESSION BY NOVEL NANOPARTICLES FOR TREATMENT OF FIBROSIS ASSOCIATED WITH NONALCOHOLIC STEATOHEPATITIS. <i>Journal of Hepatology</i> , 2013, 58, S508.	1.8	0
53	Suppression of NSAID-induced small intestinal inflammation by orally administered redox nanoparticles. <i>Biomaterials</i> , 2013, 34, 8393-8400.	5.7	50
54	Redox nanoparticle treatment protects against neurological deficit in focused ultrasound-induced intracerebral hemorrhage. <i>Nanomedicine</i> , 2012, 7, 1029-1043.	1.7	58

#	ARTICLE	IF	CITATIONS
55	Nanotechnology in Vivo: Complete Recovery of Cognition for Senescence-Accelerated-Prone Mice by Oral Redox-Polymer Therapeutics. <i>Free Radical Biology and Medicine</i> , 2012, 53, S112.	1.3	0
56	An Orally Administered Redox Nanoparticle That Accumulates in the Colonic Mucosa and Reduces Colitis in Mice. <i>Gastroenterology</i> , 2012, 143, 1027-1036.e3.	0.6	158
57	Creation of a blood-compatible surface: A novel strategy for suppressing blood activation and coagulation using a nitroxide radical-containing polymer with reactive oxygen species scavenging activity. <i>Acta Biomaterialia</i> , 2012, 8, 1323-1329.	4.1	22
58	Design and Preparation of a Nanoprobe for Imaging Inflammation Sites. <i>Biointerphases</i> , 2012, 7, 7.	0.6	11
59	Abstract 2900: Redox nanoparticle enhances effect of anticancer chemotherapy and suppresses cardio-toxicity. , 2012, , .		0
60	Chemical nanotherapy: nitroxyl radical-containing nanoparticle protects neuroblastoma SH-SY5Y cells from $Al^{2+}$ -induced oxidative stress. <i>Therapeutic Delivery</i> , 2011, 2, 585-597.	1.2	21
61	Newly Synthesized Radical-Containing Nanoparticles Enhance Neuroprotection After Cerebral Ischemia-Reperfusion Injury. <i>Neurosurgery</i> , 2011, 68, 1418-1426.	0.6	68
62	Redox Nanoparticle Enhances Effect of Anticancer Chemotherapy and Suppresses Cardio-toxicity. <i>Free Radical Biology and Medicine</i> , 2011, 51, S92.	1.3	0
63	The ROS scavenging and renal protective effects of pH-responsive nitroxide radical-containing nanoparticles. <i>Biomaterials</i> , 2011, 32, 8021-8028.	5.7	136
64	The use of nitroxide radical-containing nanoparticles coupled with piperine to protect neuroblastoma SH-SY5Y cells from $Al^{2+}$ -induced oxidative stress. <i>Biomaterials</i> , 2011, 32, 8605-8612.	5.7	40
65	Nitroxyl radical-containing nanoparticles for novel nanomedicine against oxidative stress injury. <i>Nanomedicine</i> , 2011, 6, 509-518.	1.7	44
66	Novel Oligonucleotide Carrier as Scavenger for Reactive Oxygen Species. <i>Macromolecular Bioscience</i> , 2011, 11, 344-351.	2.1	7
67	Novel redox nanomedicine improves gene expression of polyion complex vector. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 065001.	2.8	8
68	Abstract 369: Redox nanoparticle for tumor imaging and anticancer drug enhancer. , 2011, , .		1
69	Oxidative stress induced by cerebral ischemia-reperfusion and neuroprotection: Potentiality of pH-responsive radical-containing nanoparticle (RNP). <i>Nosotchu</i> , 2010, 32, 552-558.	0.0	0
70	pH-Sensitive Radical-Containing-Nanoparticle (RNP) for the L-Band-EPR Imaging of Low pH Circumstances. <i>Bioconjugate Chemistry</i> , 2009, 20, 1792-1798.	1.8	83
71	Design of Core-Shell-Type Nanoparticles Carrying Stable Radicals in the Core. <i>Biomacromolecules</i> , 2009, 10, 596-601.	2.6	102
72	Micropattern-Controlled Cell Density and Its Effect on Gene Transfection of Mesenchymal Stem Cells. <i>Advanced Materials Interfaces</i> , 0, , 2101978.	1.9	6