

# Nobutaka Hanagata

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

3,644  
citations

136885

32  
h-index

149623

56  
g-index

109  
all docs

109  
docs citations

109  
times ranked

6329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial activity of two-dimensional MoS <sub>2</sub> sheets. <i>Nanoscale</i> , 2014, 6, 10126-10133.	2.8	310
2	Silicon Quantum Dots for Biological Applications. <i>Advanced Healthcare Materials</i> , 2014, 3, 10-29.	3.9	163
3	Molecular Responses of Human Lung Epithelial Cells to the Toxicity of Copper Oxide Nanoparticles Inferred from Whole Genome Expression Analysis. <i>ACS Nano</i> , 2011, 5, 9326-9338.	7.3	152
4	Structure-dependent immunostimulatory effect of CpG oligodeoxynucleotides and their delivery system. <i>International Journal of Nanomedicine</i> , 2012, 7, 2181.	3.3	151
5	Hollow Mesoporous Silica/Poly(L-lysine) Particles for Codelivery of Drug and Gene with Enzyme-Triggered Release Property. <i>Journal of Physical Chemistry C</i> , 2011, 115, 13630-13636.	1.5	119
6	CpG oligodeoxynucleotide nanomedicines for the prophylaxis or treatment of cancers, infectious diseases, and allergies. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 515-531.	3.3	111
7	Mesoporous Silica Nanoparticles Capped with Graphene Quantum Dots for Potential Chemo-Photothermal Synergistic Cancer Therapy. <i>Langmuir</i> , 2017, 33, 591-599.	1.6	108
8	Magnetic mesoporous silica nanoparticles coated with thermo-responsive copolymer for potential chemo- and magnetic hyperthermia therapy. <i>Microporous and Mesoporous Materials</i> , 2018, 256, 1-9.	2.2	104
9	Composite-dissolving microneedle patches for chemotherapy and photothermal therapy in superficial tumor treatment. <i>Biomaterials Science</i> , 2018, 6, 1414-1423.	2.6	96
10	Characterization of the osteoblast-specific transmembrane protein IFITM5 and analysis of IFITM5-deficient mice. <i>Journal of Bone and Mineral Metabolism</i> , 2011, 29, 279-290.	1.3	93
11	Contribution of physicochemical characteristics of nano-oxides to cytotoxicity. <i>Biomaterials</i> , 2010, 31, 8022-8031.	5.7	79
12	Hafnium-doped hydroxyapatite nanoparticles with ionizing radiation for lung cancer treatment. <i>Acta Biomaterialia</i> , 2016, 37, 165-173.	4.1	76
13	Silver nanoparticles induce tight junction disruption and astrocyte neurotoxicity in a rat blood-brain barrier primary triple coculture model. <i>International Journal of Nanomedicine</i> , 2015, 10, 6105.	3.3	70
14	Composition-structure-property relationships of the CaO-MxOy-SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> (M = Zr, Mg, Sr) mesoporous bioactive glass (MBC) scaffolds. <i>Journal of Materials Chemistry</i> , 2011, 21, 9208.	6.7	59
15	Nuclease-resistant immunostimulatory phosphodiester CpG oligodeoxynucleotides as human Toll-like receptor 9 agonists. <i>BMC Biotechnology</i> , 2011, 11, 88.	1.7	56
16	Non-invasive Photodynamic Therapy in Brain Cancer by Use of Tb <sup>3+</sup> -Doped LaF <sub>3</sub> Nanoparticles in Combination with Photosensitizer Through X-ray Irradiation: A Proof-of-Concept Study. <i>Nanoscale Research Letters</i> , 2017, 12, 62.	3.1	55
17	Identification and characterization of mRNA transcripts differentially expressed in response to high salinity by means of differential display in the mangrove, <i>Bruguiera gymnorrhiza</i> . <i>Plant Science</i> , 2002, 162, 499-505.	1.7	53
18	Porous hydroxyapatite and biphasic calcium phosphate ceramics promote ectopic osteoblast differentiation from mesenchymal stem cells. <i>Science and Technology of Advanced Materials</i> , 2009, 10, 025003.	2.8	51

#	ARTICLE	IF	CITATIONS
19	Binding Mode of CpG Oligodeoxynucleotides to Nanoparticles Regulates Bifurcated Cytokine induction via Toll-like Receptor 9. <i>Scientific Reports</i> , 2012, 2, 534.	1.6	51
20	Identification of a boron nitride nanosphere-binding peptide for the intracellular delivery of CpG oligodeoxynucleotides. <i>Nanoscale</i> , 2012, 4, 6343.	2.8	49
21	Investigations on the interactions of 5-fluorouracil with bovine serum albumin: Optical spectroscopic and molecular modeling studies. <i>Journal of Luminescence</i> , 2014, 151, 1-10.	1.5	49
22	Crystal structure refinement of A-type carbonate apatite by X-ray powder diffraction. <i>Journal of Materials Science</i> , 2010, 45, 2419-2426.	1.7	44
23	Challenge to assess the toxic contribution of metal cation released from nanomaterials for nanotoxicology – the case of ZnO nanoparticles. <i>Nanoscale</i> , 2013, 5, 4763.	2.8	42
24	Toxicity of Silver Nanoparticles as Assessed by Global Gene Expression Analysis. <i>Materials Express</i> , 2011, 1, 74-79.	0.2	41
25	Mesoporous silica nanoparticles for enhancing the delivery efficiency of immunostimulatory DNA drugs. <i>Dalton Transactions</i> , 2014, 43, 5142-5150.	1.6	40
26	Osteoblast-enriched membrane protein IFITM5 regulates the association of CD9 with an FKBP11-CD81-FPRP complex and stimulates expression of interferon-induced genes. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 378-384.	1.0	39
27	Transient charge-masking effect of applied voltage on electrospinning of pure chitosan nanofibers from aqueous solutions. <i>Science and Technology of Advanced Materials</i> , 2012, 13, 015003.	2.8	39
28	Collagen-templated sol-gel fabrication, microstructure, in vitro apatite deposition, and osteoblastic cell MC3T3-E1 compatibility of novel silica nanotube compacts. <i>Journal of Materials Chemistry</i> , 2011, 21, 4332.	6.7	36
29	Detection of Interfacial Phenomena with Osteoblast-like Cell Adhesion on Hydroxyapatite and Oxidized Polystyrene by the Quartz Crystal Microbalance with Dissipation. <i>Langmuir</i> , 2011, 27, 7635-7644.	1.6	36
30	Microfluidic generation of chitosan/CpG oligodeoxynucleotide nanoparticles with enhanced cellular uptake and immunostimulatory properties. <i>Lab on A Chip</i> , 2014, 14, 1842.	3.1	36
31	High-performance printable 2.4 GHz graphene-based antenna using water-transferring technology. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 870-875.	2.8	36
32	Nanocasting Route to Ordered Mesoporous Carbon with FePt Nanoparticles and Its Phenol Adsorption Property. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5998-6002.	1.5	34
33	Reusable hydroxyapatite nanocrystal sensors for protein adsorption. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 045002.	2.8	34
34	Fabrication, microstructure, and BMP-2 delivery of novel biodegradable and biocompatible silicate-collagen hybrid fibril sheets. <i>Journal of Materials Chemistry</i> , 2011, 21, 10942.	6.7	34
35	BN nanospheres as CpG ODN carriers for activation of toll-like receptor 9. <i>Journal of Materials Chemistry</i> , 2011, 21, 5219.	6.7	34
36	Sequencing and analysis of 14,842 expressed sequence tags of burma mangrove, <i>Bruguiera gymnorhiza</i> . <i>Plant Science</i> , 2006, 171, 234-241.	1.7	32

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37	Phenotype and gene expression pattern of osteoblast-like cells cultured on polystyrene and hydroxyapatite with pre-adsorbed type-I collagen. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 362-371.	2.1	32
38	Photoluminescence and doping mechanism of theranostic Eu <sup>3+</sup> /Fe <sup>3+</sup> dual-doped hydroxyapatite nanoparticles. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 055005.	2.8	32
39	Microarray analysis of 7029 gene expression patterns in burma mangrove under high-salinity stress. <i>Plant Science</i> , 2007, 172, 948-957.	1.7	31
40	Protein Adsorption on Hydroxyapatite Nanosensors with Different Crystal Sizes Studied <i>In Situ</i> by a Quartz Crystal Microbalance with the Dissipation Method. <i>Journal of the American Ceramic Society</i> , 2009, 92, 1125-1128.	1.9	30
41	Polyethyleneimine-functionalized boron nitride nanospheres as efficient carriers for enhancing the immunostimulatory effect of CpG oligodeoxynucleotides. <i>International Journal of Nanomedicine</i> , 2015, 10, 5343.	3.3	30
42	Interfacial Serum Protein Effect on Biological Apatite Growth. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22523-22533.	1.5	29
43	Phosphatase CD45 Both Positively and Negatively Regulates T Cell Receptor Phosphorylation in Reconstituted Membrane Protein Clusters. <i>Journal of Biological Chemistry</i> , 2014, 289, 28514-28525.	1.6	28
44	IFITM5 mutations and osteogenesis imperfecta. <i>Journal of Bone and Mineral Metabolism</i> , 2016, 34, 123-131.	1.3	28
45	Elemental distribution analysis of type I collagen fibrils in tilapia fish scale with energy-filtered transmission electron microscope. <i>Micron</i> , 2009, 40, 665-668.	1.1	27
46	Fabrication of novel collagen-silica hybrid membranes with tailored biodegradation and strong cell contact guidance ability. <i>Journal of Materials Chemistry</i> , 2012, 22, 21885.	6.7	27
47	Binding of CpG oligodeoxynucleotides to mesoporous silica nanoparticles for enhancing delivery efficiency. <i>Microporous and Mesoporous Materials</i> , 2015, 204, 91-98.	2.2	27
48	Carbon nanohorns allow acceleration of osteoblast differentiation via macrophage activation. <i>Nanoscale</i> , 2016, 8, 14514-14522.	2.8	27
49	Elucidation of Zero-Dimensional to Two-Dimensional Growth Transition in MoS <sub>2</sub> Chemical Vapor Deposition Synthesis. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600687.	1.9	27
50	Role of S-Palmitoylation on IFITM5 for the Interaction with FKBP11 in Osteoblast Cells. <i>PLoS ONE</i> , 2013, 8, e75831.	1.1	27
51	Molecular cloning and characterization of genes encoding BURP domain-containing protein in the mangrove, <i>Bruguiera gymnorrhiza</i> . <i>Trees - Structure and Function</i> , 2002, 16, 87-93.	0.9	26
52	Pre-adsorbed type-I collagen structure-dependent changes in osteoblastic phenotype. <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 1234-1240.	1.0	25
53	Biocompatible CdSe/ZnS quantum dot micelles for long-term cell imaging without alteration to the native structure of the blood plasma protein human serum albumin. <i>RSC Advances</i> , 2017, 7, 2392-2402.	1.7	24
54	Effect of amino groups of mesoporous silica nanoparticles on CpG oligodeoxynucleotide delivery. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 045006.	2.8	23

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55	Simplified detection of the hybridized DNA using a graphene field effect transistor. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 43-50.	2.8	23
56	Praja1 <sc>RING</sc>â€fingerr <sc>E3</sc> ubiquitin ligase suppresses neuronal cytoplasmic <sc>TDP</sc>â€43 aggregate formation. <i>Neuropathology</i> , 2020, 40, 570-586.	0.7	23
57	Cell cycle and size sorting of mammalian cells using a microfluidic device. <i>Analytical Methods</i> , 2010, 2, 657.	1.3	22
58	Structural analysis of rattleâ€type hollow mesoporous silica spheres using electron tomography and energy filtered imaging. <i>Surface and Interface Analysis</i> , 2010, 42, 1548-1551.	0.8	21
59	Design of Mesoporous Silica/CytosineâˆPhosphodiesterâˆGuanine Oligodeoxynucleotide Complexes To Enhance Delivery Efficiency. <i>Journal of Physical Chemistry C</i> , 2011, 115, 447-452.	1.5	20
60	Effect of molecular weight of polyethyleneimine on loading of CpG oligodeoxynucleotides onto flake-shell silica nanoparticles for enhanced TLR9-mediated induction of interferon-â&alpha;. <i>International Journal of Nanomedicine</i> , 2012, 7, 3625.	3.3	20
61	Preparation and characterization of multifunctional magnetic mesoporous calcium silicate materials. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 055009.	2.8	19
62	Mechanomics Biomarker for Cancer Cells Unidentifiable through Morphology and Elastic Modulus. <i>Nano Letters</i> , 2021, 21, 1538-1545.	4.5	19
63	Synthesis and fast transfer of monolayer MoS<sub>2</sub> on reusable fused silica. <i>Nanoscale</i> , 2017, 9, 6984-6990.	2.8	18
64	Competitive adsorption of fibronectin and albumin on hydroxyapatite nanocrystals. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 034411.	2.8	17
65	Fatty acid beta oxidation enzyme HADHA is a novel potential therapeutic target in malignant lymphoma. <i>Laboratory Investigation</i> , 2020, 100, 353-362.	1.7	17
66	Intrinsically Substitutional Carbon Doping in CVD-Grown Monolayer MoS2 and the Band Structure Modulation. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1055-1064.	2.0	17
67	Comprehensive Genetic Analysis of Early Host Body Reactions to the Bioactive and Bio-Inert Porous Scaffolds. <i>PLoS ONE</i> , 2014, 9, e85132.	1.1	16
68	<i>In vitro</i>formation and thermal transition of novel hybrid fibrils from type I fish scale collagen and type I porcine collagen. <i>Science and Technology of Advanced Materials</i> , 2010, 11, 035001.	2.8	15
69	Synthesis of novel chitosanâ€silica/CpG oligodeoxynucleotide nanohybrids with enhanced delivery efficiency. <i>Materials Science and Engineering C</i> , 2013, 33, 3382-3388.	3.8	15
70	Generation of microgrooved silica nanotube membranes with sustained drug delivery and cell contact guidance ability by using a Teflon microfluidic chip. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 015005.	2.8	15
71	Facile synthesis, microstructure and BMP-2 delivery of novel silica hollow flowers for enhanced osteoblast differentiation. <i>Chemical Engineering Journal</i> , 2014, 246, 1-9.	6.6	15
72	Nano-Bio Interaction between Blood Plasma Proteins and Water-Soluble Silicon Quantum Dots with Enabled Cellular Uptake and Minimal Cytotoxicity. <i>Nanomaterials</i> , 2020, 10, 2250.	1.9	15

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73	BMP-2-loaded silica nanotube fibrous meshes for bone generation. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 065003.	2.8	14
74	Magnetic mesoporous silica nanoparticles for CpG delivery to enhance cytokine induction via toll-like receptor 9. <i>RSC Advances</i> , 2014, 4, 45823-45830.	1.7	14
75	Monomeric G-Quadruplex-Based CpG Oligodeoxynucleotides as Potent Toll-Like Receptor 9 Agonists. <i>Biomacromolecules</i> , 2020, 21, 3644-3657.	2.6	14
76	Effect of Moderate UVC Irradiation on Bovine Serum Albumin and Complex with Antimetabolite 5-Fluorouracil: Fluorescence Spectroscopic and Molecular Modelling Studies. <i>International Journal of Spectroscopy</i> , 2015, 2015, 1-12.	1.4	12
77	Protein Adsorption on Hydroxyapatite Nano-Crystals with Quartz Crystal Microbalance Technique. <i>Key Engineering Materials</i> , 2008, 361-363, 1119-1122.	0.4	11
78	Mass spectrometry-based proteomic analysis of formalin-fixed paraffin-embedded extrahepatic cholangiocarcinoma. <i>Journal of Hepato-Biliary-Pancreatic Sciences</i> , 2015, 22, 683-691.	1.4	11
79	Synthesis and osteo-compatibility of novel reduced graphene oxide-aminosilica hybrid nanosheets. <i>Materials Science and Engineering C</i> , 2016, 61, 251-256.	3.8	11
80	Molecular interaction of silicon quantum dot micelles with plasma proteins: hemoglobin and thrombin. <i>RSC Advances</i> , 2019, 9, 14928-14936.	1.7	11
81	The Surface Property of Hydroxyapatite: Sensing with Quartz Crystal Microbalance. <i>Key Engineering Materials</i> , 0, 396-398, 89-92.	0.4	9
82	A facilely controlled length, cytotoxicity, length-dependent and cell type-dependent cellular uptake of silica nanotubes and their applications in the delivery of immunostimulatory CpG oligodeoxynucleotides. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7246-7254.	2.9	9
83	Imaging of Fas-FasL membrane microdomains during apoptosis in a reconstituted cell-cell junction. <i>Biochemical and Biophysical Research Communications</i> , 2012, 422, 298-304.	1.0	8
84	A Perspective on Imiquimod Microneedles for Treating Warts. <i>Pharmaceutics</i> , 2021, 13, 607.	2.0	8
85	Adsorption of Proteins Derived from Fetal Bovine Serum onto Hydroxyapatite Nanocrystals with Quartz Crystal Microbalance Technique. <i>Key Engineering Materials</i> , 0, 396-398, 47-50.	0.4	7
86	Double-stranded phosphodiester cytosine-guanine oligodeoxynucleotide complexed with calcium phosphate as a potent vaccine adjuvant for activating cellular and Th1-type humoral immunities. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 43-62.	3.3	7
87	Characterization and Protein Adsorption Ability of Zinc, Iron and Magnesium Hydroxyapatite. <i>Key Engineering Materials</i> , 2008, 361-363, 187-190.	0.4	6
88	Initial Adhesion Behavior of Fibroblasts onto Hydroxyapatite Nanocrystals. <i>Bioceramics Development and Applications</i> , 2011, 1, 1-4.	0.3	6
89	Large-scale Fabrication of Free-standing, Micropatterned Silica Nanotubes Via a Hybrid Hydrogel-templated Route. <i>Advanced Healthcare Materials</i> , 2013, 2, 1091-1095.	3.9	5
90	Calcium ions rescue human lung epithelial cells from the toxicity of zinc oxide nanoparticles. <i>Journal of Toxicological Sciences</i> , 2015, 40, 625-635.	0.7	5

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91	Effect of immunosuppressants on a mouse model of osteogenesis imperfecta type V harboring a heterozygous Ifitm5 c.-14Câ€%>â€%T mutation. Scientific Reports, 2020, 10, 21197.	1.6	5
92	Gene Expression Profile of Osteoblast-Like Cells on Calcium Phosphate Biomaterials. Key Engineering Materials, 2007, 330-332, 1087-1090.	0.4	4
93	Global gene expression analysis for evaluation and design of biomaterials. Science and Technology of Advanced Materials, 2010, 11, 013001.	2.8	3
94	Diffraction-unlimited optical imaging of unstained living cells in liquid by electron beam scanning of luminescent environmental cells. Optics Express, 2013, 21, 28198.	1.7	3
95	Regulation of bifurcated cytokine induction by surface charge of nanoparticles during interaction between CpG oligodeoxynucleotides and toll-like receptor 9. Journal of Drug Delivery Science and Technology, 2015, 29, 251-260.	1.4	3
96	Photostability of quantum dot micelles under ultraviolet irradiation. Luminescence, 2019, 34, 472-479.	1.5	3
97	Visualized procollagen Î±1 demonstrates the intracellular processing of propeptides. Life Science Alliance, 2022, 5, e202101060.	1.3	3
98	Rigid Hydroxyapatite-Alginate Beads for Sustained Release of Paclitaxel. Key Engineering Materials, 2008, 361-363, 535-538.	0.4	2
99	Cytotoxicity and Cancer Detection Ability of the Luminescent Nanoporous Silica Spheres Immobilized with Folic Acid Derivative. Key Engineering Materials, 0, 529-530, 630-635.	0.4	2
100	Directing Osteoblast Alignment and Elongation on the Micro-Grooved Silica-Based Hybrid Membrane. Advanced Materials Research, 2013, 647, 165-169.	0.3	2
101	4-Hydroxycoumarin Derivative: <i>N</i>-[(2-oxo-2H-chromen-4-yl)oxy]acetamide Interaction with Human Serum Albumin. Journal of Spectroscopy, 2018, 2018, 1-14.	0.6	2
102	Hepatocyte Adhesion Behavior on Modified Hydroxyapatite Nanocrystals with Quartz Crystal Microbalance. Bioceramics Development and Applications, 2011, 1, 1-4.	0.3	2
103	Global Gene Expression Analysis for the Assessment of Nanobiomaterials. Frontiers of Oral Biology, 2015, 17, 78-89.	1.5	2
104	Adsorption and Sustained Release of Insulin from Zinc Hydroxyapatite Microparticle with Poly (Lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	1
105	Effect of Acid Treated Hydroxyapatite on Osteoblast Maturation. Key Engineering Materials, 2007, 361-363, 1029-1032.	0.4	0
106	1P-090 Structural study of Ifitm5, a human double transmembrane protein : sample preparation for NMR analysis(Membrane proteins, The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S77-S78.	0.0	0
107	Biomedical Applications of Sol-Gel Nanocomposites. , 2014, , 167-190.		0