

# Toshiyuki Nomura

## List of Publications by Year in descending order

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92  
papers

1,660  
citations

394286

19  
h-index

302012

39  
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93  
all docs

93  
docs citations

93  
times ranked

1983  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct measurement of adhesion force between a yeast cell and a lactic acid bacterium cell with atomic force microscopy. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 155-160.	1.1	2
2	Microbial recovery of palladium by baker's yeast through bioreductive deposition and biosorption. <i>Hydrometallurgy</i> , 2020, 196, 105413.	1.8	13
3	Delivery of Biodegradable Poly Lactic-co-Glycolic Acid (PLGA) Nanoparticles into Plant Cells. <i>Journal of the Society of Powder Technology, Japan</i> , 2020, 57, 424-427.	0.0	0
4	The Possibility of the Aerosol Infection of Corona Disease COVID-19 Analysis from the Viewpoint of Particle Technology. <i>Journal of the Society of Powder Technology, Japan</i> , 2020, 57, 526-529.	0.0	2
5	Control of Biofilm Formation Using Hydrophilic Nanoparticles. <i>Journal of the Society of Powder Technology, Japan</i> , 2020, 57, 588-592.	0.0	0
6	Analysis of the Continuous Bioconversion of Glycerol by Promotion of Highly Glycerol-Resistant Glycerol-Degrading Bacteria. <i>Waste and Biomass Valorization</i> , 2019, 10, 3321-3330.	1.8	4
7	Direct measurement of interaction forces between a yeast cell and a microbubble using atomic force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 583, 123963.	2.3	6
8	Disease control of <i>Phytophthora infestans</i> using cyazofamid encapsulated in poly lactic-co-glycolic acid (PLGA) nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 577, 315-322.	2.3	24
9	Sustainable Use of Precious and Rare Metals Through Biotechnological Recycling. <i>Minerals, Metals and Materials Series</i> , 2019, , 107-114.	0.3	1
10	Solid-state synthesis and characterization of cobalt blue core-shell pigment particles. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3468-3476.	1.9	12
11	Influence of Cobalt Source Compounds on the Color Tone of Cobalt Blue Inorganic Pigment. <i>Journal of the Society of Powder Technology, Japan</i> , 2019, 56, 446-451.	0.0	1
12	Adhesion control of fungal spores on solid surfaces using hydrophilic nanoparticles. <i>Advanced Powder Technology</i> , 2018, 29, 909-914.	2.0	8
13	Influence of aluminum source on the color tone of cobalt blue pigment. <i>Powder Technology</i> , 2018, 323, 574-580.	2.1	28
14	Benign preparation of aqueous core poly lactic-co-glycolic acid (PLGA) microcapsules. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 1-9.	5.0	14
15	Introduction of Biodegradable Poly Lactic-co-Glycolic Acid (PLGA) Nanoparticles into Yeast Cells. <i>Journal of the Society of Powder Technology, Japan</i> , 2018, 55, 626-630.	0.0	1
16	Direct measurements of colloidal behavior of polystyrene nanoparticles into budding yeast cells using atomic force microscopy and confocal microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 653-659.	2.3	5
17	Microbial recovery of gold from neutral and acidic solutions by the baker's yeast <i>Saccharomyces cerevisiae</i> . <i>Hydrometallurgy</i> , 2018, 181, 29-34.	1.8	17
18	Control of colloidal behavior of polystyrene latex nanoparticles and their cytotoxicity toward yeast cells using water-soluble polymers. <i>Advanced Powder Technology</i> , 2018, 29, 2204-2210.	2.0	7

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19	Effect of Coating Mixing Conditions on the Color Tone of Cobalt Blue Pigment Having a Core-shell Structure Obtained by Solid Phase Synthesis of Coated Particles. Journal of the Society of Powder Technology, Japan, 2018, 55, 165-170.	0.0	1
20	Impact of surface-functionalized polystyrene latex nanoparticles on the growth of <i>Methanosarcina barkeri</i> . Surface Science, 2018, 677, 34-38.	0.8	5
21	Enhancement of methane production by <i>Methanosarcina barkeri</i> using Fe <sub>3</sub> O <sub>4</sub> nanoparticles as iron sustained release agent. Advanced Powder Technology, 2018, 29, 2429-2433.	2.0	19
22	Biotechnological Recycling of Precious Metals Sourced from Post-consumer Products. Minerals, Metals and Materials Series, 2017, , 467-476.	0.3	0
23	Microbial Recycling of Precious and Rare Metals Sourced from Post-Consumer Products. Solid State Phenomena, 2017, 262, 563-567.	0.3	3
24	Effect of Extracellular Polymeric Substance on the Adhesive Forces between <i>Escherichia coli</i> and Glass Surface. Journal of the Society of Powder Technology, Japan, 2017, 54, 167-171.	0.0	0
25	Biotechnological Recovery of Platinum Group Metals from Leachates of Spent Automotive Catalysts. Minerals, Metals and Materials Series, 2017, , 129-135.	0.3	4
26	Nano Particle as Artificial Food Additive Influence to Intestinal Bacterial Flora. Journal of the Society of Powder Technology, Japan, 2017, 54, 172-177.	0.0	0
27	Comparison of the cytotoxic effect of polystyrene latex nanoparticles on planktonic cells and bacterial biofilms. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	13
28	Cytotoxicity and colloidal behavior of polystyrene latex nanoparticles toward filamentous fungi in isotonic solutions. Chemosphere, 2016, 149, 84-90.	4.2	46
29	Role of Extracellular Polymeric Substance and Filamentous Appendages on Initial Bacterial Adhesion onto Solid Surface. Journal of the Society of Powder Technology, Japan, 2015, 52, 132-138.	0.0	1
30	Cytotoxicity and behavior of polystyrene latex nanoparticles to budding yeast. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 469, 287-293.	2.3	29
31	Cytotoxicity of functionalized polystyrene latex nanoparticles toward lactic acid bacteria, and comparison with model microbes. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	14
32	Estimation of the adhesive force distribution for the flagellar adhesion of <i>Escherichia coli</i> on a glass surface. Colloids and Surfaces B: Biointerfaces, 2015, 131, 67-72.	2.5	14
33	Facile fabrication of hollow titania microparticles using wet yeast cells as templates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 215-220.	2.3	5
34	Adhesion and internalization of functionalized polystyrene latex nanoparticles toward the yeast <i>Saccharomyces cerevisiae</i> . Advanced Powder Technology, 2014, 25, 1394-1397.	2.0	32
35	Isolation and characterization of a novel hydrogen-producing strain <i>Clostridium</i> sp. suitable for immobilization. International Journal of Hydrogen Energy, 2014, 39, 1280-1287.	3.8	6
36	Measurement of microbial adhesive forces with a parallel plate flow chamber. Journal of Colloid and Interface Science, 2014, 432, 77-85.	5.0	20

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37	Influence of Mixing Time and Calcination Temperature on Color Tone of Cobalt Blue Synthesized by Solid Phase Reaction Method. <i>Journal of the Society of Powder Technology, Japan</i> , 2014, 51, 629-634.	0.0	2
38	Influence of Powder Wettability on Production Yield of Composite Particles in a Horizontal Mixer. <i>Kagaku Kogaku Ronbunshu</i> , 2014, 40, 292-298.	0.1	0
39	Synthesis of Hollow Titania Photocatalytic Particles Using Yeast as Templates. <i>Advanced Materials Research</i> , 2013, 699, 126-132.	0.3	1
40	Microbial recovery of rhodium from dilute solutions by the metal ion-reducing bacterium <i>Shewanella algae</i> . <i>Hydrometallurgy</i> , 2013, 139, 26-29.	1.8	28
41	Synthesis of hollow zirconia particles using wet bacterial templates. <i>Advanced Powder Technology</i> , 2013, 24, 1013-1016.	2.0	19
42	Exposure of the Yeast <i>Saccharomyces cerevisiae</i> to Functionalized Polystyrene Latex Nanoparticles: Influence of Surface Charge on Toxicity. <i>Environmental Science &amp; Technology</i> , 2013, 47, 3417-3423.	4.6	61
43	Adhesion and Internalization of Functionalized Polystyrene Latex Nanoparticles toward the Yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of the Society of Powder Technology, Japan</i> , 2013, 50, 472-477.	0.0	0
44	Anaerobic Digestion and Resource Process of Glycerol by Fed-Batch Culture. <i>Journal of Environmental Conservation Engineering</i> , 2013, 42, 94-100.	0.0	1
45	Estimation of Adhesion and Aggregation of Acetate-utilizing Methanogens. <i>Journal of the Society of Powder Technology, Japan</i> , 2012, 49, 267-273.	0.0	2
46	Ecotoxicity of PSL Nanoparticles to <i>Escherichia Coli</i> . <i>Journal of the Society of Powder Technology, Japan</i> , 2012, 49, 362-366.	0.0	3
47	Adhesion and Coaggregation Phenomena of Acetate-utilizing Methanogens under Coexistence of Acidogens. <i>Journal of the Society of Powder Technology, Japan</i> , 2012, 49, 514-520.	0.0	2
48	Biofilm Formation of Denitrifying Bacteria on Support Materials. <i>Journal of the Society of Powder Technology, Japan</i> , 2012, 49, 883-888.	0.0	0
49	Control of microbial adhesion using fine particle technology. <i>Advanced Powder Technology</i> , 2012, 23, 532-537.	2.0	16
50	Room-temperature synthesis of gold nanoparticles and nanoplates using <i>Shewanella algae</i> cell extract. <i>Journal of Nanoparticle Research</i> , 2010, 12, 2531-2539.	0.8	91
51	Synthesis of hollow silica microparticles from bacterial templates. <i>Advanced Powder Technology</i> , 2010, 21, 8-12.	2.0	26
52	A Novel Method of Fabrication of Latex-Stabilized Water-Core Colloidosomes at Room Temperature. <i>Langmuir</i> , 2010, 26, 18676-18680.	1.6	18
53	Microbial Reduction and Recovery of Palladium Using Metal Ion-Reducing Bacterium <i>Shewanella algae</i> . <i>Kagaku Kogaku Ronbunshu</i> , 2010, 36, 288-292.	0.1	15
54	High yield synthesis of single-crystalline gold nanoplates using the metal ion-reducing bacteria. <i>Transactions of the Materials Research Society of Japan</i> , 2010, 35, 19-22.	0.2	1

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55	Shape and size control of barium chromate nanoparticles using reverse micelle. <i>Advanced Powder Technology</i> , 2009, 20, 101-105.	2.0	13
56	The role of microbial surface properties and extracellular polymer in <i>Lactococcus Lactis</i> aggregation. <i>Advanced Powder Technology</i> , 2009, 20, 537-541.	2.0	11
57	STRUCTURAL CONTROL OF NANOPARTICLES. , 2008, , 49-112.		1
58	Fabrication of silica hollow particles using <i>Escherichia coli</i> as a template. <i>Materials Letters</i> , 2008, 62, 3727-3729.	1.3	42
59	Effect of Trace Components of Seawater on Water Content of Sea-Salt Aerosol. <i>Journal of the Society of Powder Technology, Japan</i> , 2008, 45, 478-483.	0.0	0
60	Phase Transition and Morphology of NaCl Aerosol Particles. <i>Journal of the Society of Powder Technology, Japan</i> , 2008, 45, 305-311.	0.0	1
61	Selective Immobilization of Aceticlastic Methanogens to Support Material [Translated] &sup> &sup>. <i>KONA Powder and Particle Journal</i> , 2008, 26, 246-253.	0.9	6
62	SHAPE AND SIZE CONTROL OF BARIUM COMPOUND NANOPARTICLES USING MICROEMULSION. <i>International Journal of Nanoscience</i> , 2007, 06, 155-159.	0.4	0
63	Control of Microbial Adhesion with Colloid Science Techniques. <i>Journal of the Society of Powder Technology, Japan</i> , 2007, 44, 122-126.	0.0	2
64	Bioreductive deposition of platinum nanoparticles on the bacterium <i>Shewanella</i> algae. <i>Journal of Biotechnology</i> , 2007, 128, 648-653.	1.9	442
65	Direct determination of oxidation state of gold deposits in metal-reducing bacterium <i>Shewanella</i> algae using X-ray absorption near-edge structure spectroscopy (XANES). <i>Journal of Bioscience and Bioengineering</i> , 2007, 103, 568-571.	1.1	25
66	Effect of the surface characteristics of <i>Methanosarcina barkeri</i> on immobilization to support materials. <i>Advanced Powder Technology</i> , 2007, 18, 489-501.	2.0	17
67	Resource recovery treatment of waste sludge using a solubilizing reagent. <i>Journal of Material Cycles and Waste Management</i> , 2007, 9, 34-39.	1.6	14
68	Elucidation of Microbial Adhesion to Solid Surface. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2007, 15, 114-117.	0.0	0
69	Selective Immobilization of Aceticlastic Methanogens to Support Material. <i>Journal of the Society of Powder Technology, Japan</i> , 2006, 43, 653-659.	0.0	4
70	Intracellular recovery of gold by microbial reduction of AuCl <sub>4</sub> <sup>-</sup> ions using the anaerobic bacterium <i>Shewanella</i> algae. <i>Hydrometallurgy</i> , 2006, 81, 24-29.	1.8	156
71	Microbial Synthesis of Noble Metal Nanoparticles using Metal-reducing Bacteria. <i>Materials Research Society Symposia Proceedings</i> , 2006, 942, 1.	0.1	1
72	A new synthesis route from spent sulfuric acid pickling solution to ferrite nanoparticles. <i>Hydrometallurgy</i> , 2004, 74, 57-65.	1.8	38

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73	Solvothermal Preparation of Cuprous Oxide Fine Particles by Hydrolysis of Copper(II) Carboxylate in Two-Phase Liquid-Liquid System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 2088-2092.	1.8	7
74	Preparation of Cobalt Ferrite Nanoparticles by Hydrolysis of Cobalt-Iron (III) Carboxylate Dissolved in Organic Solvent. <i>Materials Transactions</i> , 2004, 45, 81-85.	0.4	8
75	The environment humidity effect on the tribo-charge of powder. <i>Powder Technology</i> , 2003, 135-136, 43-49.	2.1	58
76	Zinc Leaching from Fly Ash in Municipal Waste Incineration by Thermophilic Archaeal <i>Acidianus brierleyi</i> Growing on Elemental Sulfur. <i>Separation Science and Technology</i> , 2003, 38, 4117-4130.	1.3	7
77	Simple model of particle formation by homogeneous and heterogeneous nucleation. <i>Advanced Powder Technology</i> , 2001, 12, 291-309.	2.0	10
78	Precipitation of Zinc Sulfide Particles from Homogeneous Solutions. <i>Journal of Colloid and Interface Science</i> , 2000, 223, 179-184.	5.0	17
79	A Model for Simultaneous Homogeneous and Heterogeneous Nucleation in the Case of Slow Reaction Rate. <i>Journal of Colloid and Interface Science</i> , 2000, 221, 195-199.	5.0	11
80	Simple Model of Aerosol Particle Formation by the Evaporation-Condensation Method. <i>Journal of Colloid and Interface Science</i> , 2000, 231, 107-113.	5.0	2
81	Particle formation by the dilution method using a miscible non-solvent. <i>Advanced Powder Technology</i> , 2000, 11, 57-68.	2.0	3
82	Influence of the Atmospheric Condition for Tribo-Charging of Powder.. <i>Journal of the Society of Powder Technology, Japan</i> , 1999, 36, 168-173.	0.0	19
83	A Model of Liquid-phase Homogeneous Nucleation in a System Containing Seed Particles [Translated]. <i>KONA Powder and Particle Journal</i> , 1999, 17, 190-196.	0.9	1
84	A Model for Simultaneous Homogeneous and Heterogeneous Nucleation. <i>Journal of Colloid and Interface Science</i> , 1998, 203, 170-176.	5.0	28
85	Influence of the Characteristics of Charge Relaxation for Tribo-Charging of Powder.. <i>Kagaku Kogaku Ronbunshu</i> , 1998, 24, 585-590.	0.1	11
86	Effect of Viscosity on Particle Generation in Liquid Phase.. <i>Kagaku Kogaku Ronbunshu</i> , 1998, 24, 642-645.	0.1	4
87	Engineering Model for Homogeneous Nucleation in System Containing Seed Particles.. <i>Kagaku Kogaku Ronbunshu</i> , 1997, 23, 673-678.	0.1	8
88	Engineering Model for Homogeneous Nucleation.. <i>Kagaku Kogaku Ronbunshu</i> , 1997, 23, 666-672.	0.1	12
89	Examination of the Contact-potential-difference Measurement Model between a Powder and a Metal.. <i>Journal of the Society of Powder Technology, Japan</i> , 1995, 32, 472-475.	0.0	8
90	Isolation of Hydrogen-Producing Bacteria Suitable for Immobilization from Anaerobic Sludge. <i>Advanced Materials Research</i> , 0, 772, 849-854.	0.3	1

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91	Bacterial Toxicity of Functionalized Polystyrene Latex Nanoparticles Toward <i>Escherichia coli</i> . <i>Advanced Materials Research</i> , 0, 699, 672-677.	0.3	5
92	Bioleaching of Low-Grade Chalcopyrite Ore by the Thermophilic Archaeon <i>Acidianus brierleyi</i> . <i>Solid State Phenomena</i> , 0, 262, 237-241.	0.3	5