Masayoshi Tanaka

List of Publications by Year
in descending order

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128	4,941	109321	102487
papers	citations	35 h-index	66 g-index

131	131	131	5161
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enrichment of membrane curvature-sensing proteins from Escherichia coli using spherical supported lipid bilayers. Journal of Bioscience and Bioengineering, 2022, 133, 98-104.	2.2	1
2	Mesocrystalline Ordering and Phase Transformation of Iron Oxide Biominerals in the Ultrahard Teeth of Cryptochiton stelleri. Small Structures, 2022, 3, .	12.0	11
3	Surface glycan targeting for cancer nano-immunotherapy. Journal of Controlled Release, 2022, 342, 321-336.	9.9	10
4	Unveiling characteristic proteins for the structural development of beetle elytra. Acta Biomaterialia, 2022, 140, 467-480.	8.3	6
5	Singleâ€cell genotyping of phytoplankton from ocean water by gelâ€based cell manipulation. Biotechnology Journal, 2022, , 2100633.	3.5	0
6	Inhibition of cancer-cell migration by tetraspanin CD9-binding peptide. Chemical Communications, 2021, 57, 4906-4909.	4.1	11
7	Assemblies of bi-functional peptides on pyrolytic graphite for cell adhesion. Biochemical Engineering Journal, 2021, 170, 107988.	3.6	3
8	Structural Design Variations in Beetle Elytra. Advanced Functional Materials, 2021, 31, 2106468.	14.9	12
9	Synthesis of near-infrared absorbing triangular Au nanoplates using biomineralisation peptides. Acta Biomaterialia, 2021, 131, 519-531.	8.3	7
10	Oxygen transport to mammalian cell and bacteria using nano-sized liposomes encapsulating oxygen molecules. Journal of Bioscience and Bioengineering, 2021, 132, 657-665.	2.2	5
11	Inhalable nanoparticles delivery targeting alveolar macrophages for the treatment of pulmonary tuberculosis. Journal of Bioscience and Bioengineering, 2021, 132, 543-551.	2.2	27
12	Microfluidic-based capture and release of cancer-derived exosomes via peptideâ€“nanowire hybrid interface. Lab on A Chip, 2021, 21, 597-607.	6.0	56
13	Peptide-modified substrate enhances cell migration and migrasome formation. Materials Science and Engineering C, 2021, 131, 112495.	7.3	7
14	Alginate-chitosan Hydrogel Patch with Beta-glucan Nanoemulsion for Antibacterial Applications. Biotechnology and Bioprocess Engineering, 2021, 26, 71-77.	2.6	17
15	Methods of Analyzing Microsized Plastics in the Environment. Applied Sciences (Switzerland), 2021, 11, 10640.	2.5	35
16	Crystallization by particle attachment is a colloidal assembly process. Nature Materials, 2020, 19, 391-396.	27.5	78
17	In situ bioimaging of Lactobacillus by photoluminescence of MoS₂. 2D Materials, 2020, 7, 024002.	4.4	5
18	Development of silver/graphene oxide nanocomposites for antibacterial and antibiofilm applications. Journal of Industrial and Engineering Chemistry, 2020, 83, 46-52.	5.8	29

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19	Toughening mechanisms of the elytra of the diabolical ironclad beetle. Nature, 2020, 586, 543-548.	27.8	121
20	Comment: Non-classical nucleation towards separation and recycling science: Iron and aluminium (Oxy)(hydr)oxides. Current Opinion in Colloid and Interface Science, 2020, 46, 128-129.	7.4	0
21	Systematic Screening and Deep Analysis of CoPt Binding Peptides Leads to Enhanced CoPt Nanoparticles Using Designed Peptides. Bioconjugate Chemistry, 2020, 31, 1981-1994.	3.6	1
22	Study and Evaluation of the Potential of Lipid Nanocarriers for Transdermal Delivery of siRNA. Biotechnology Journal, 2020, 15, e2000079.	3.5	7
23	Peptide array-based inhibition ELISA for evaluating antigenicity in infant formulas. Journal of Bioscience and Bioengineering, 2020, 130, 374-381.	2.2	1
24	Radular stylus of Cryptochiton stelleri: A multifunctional lightweight and flexible fiber-reinforced composite. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 103991.	3.1	14
25	Restoration and Modification of Magnetosome Biosynthesis by Internal Gene Acquisition in a Magnetotactic Bacterium. Biotechnology Journal, 2020, 15, e2000278.	3.5	5
26	Machine learning-driven electronic identifications of single pathogenic bacteria. Scientific Reports, 2020, 10, 15525.	3.3	9
27	Methods and Applications of Biomolecular Surface Coatings on Individual Cells. ACS Applied Bio Materials, 2020, 3, 6556-6570.	4.6	5
28	Proteomic Exploration of Membrane Curvature Sensors Using a Series of Spherical Supported Lipid Bilayers. Analytical Chemistry, 2020, 92, 16197-16203.	6.5	6
29	Analysis of UV irradiation-induced cell settling of an oleaginous diatom, Fistulifera solaris, for efficient biomass recovery. Algal Research, 2020, 47, 101834.	4.6	2
30	Screening and characterisation of CdTe/CdS quantum dot-binding peptides for material surface functionalisation. RSC Advances, 2020, 10, 8218-8223.	3.6	4
31	A bioinspired peptide matrix for the detection of 2,4,6-trinitrotoluene (TNT). Biosensors and Bioelectronics, 2020, 153, 112030.	10.1	21
32	Array-Based Screening of Silver Nanoparticle Mineralization Peptides. International Journal of Molecular Sciences, 2020, 21, 2377.	4.1	11
33	Peptide-Functionalized Quantum Dots for Rapid Label-Free Sensing of 2,4,6-Trinitrotoluene. Bioconjugate Chemistry, 2020, 31, 1400-1407.	3.6	16
34	Quartz Crystal Microbalance Sensor Based on Peptide Anchored Single-Walled Carbon Nanotubes for Highly Selective TNT Explosive Detection. , 2020, , .		3
35	(Invited) Peptide Screening for the Regulation of Gold Nano-Biomineralization Using Peptide Array Technology. ECS Meeting Abstracts, 2020, MA2020-02, 2813-2813.	0.0	0
36	Rational screening of biomineralisation peptides for colour-selected one-pot gold nanoparticle syntheses. Nanoscale Advances, 2019, 1, 71-75.	4.6	13

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37	Biological Responses of Onion-Shaped Carbon Nanoparticles. Nanomaterials, 2019, 9, 1016.	4.1	11
38	Peptide Screening from a Phage Display Library for Benzaldehyde Recognition. Chemistry Letters, 2019, 48, 978-981.	1.3	12
39	Template-free synthesis of Ta₃N₅ hollow nanospheres as a visible-light-driven photocatalyst. Journal of Physics Communications, 2019, 3, 075010.	1.2	4
40	Peptide-modified Microelectrode-based Potentiometric Device for 2,4,6-trinitrotoluene Molecule Detection. Sensors and Materials, 2019, 31, 2609.	0.5	1
41	Screening of peptide probe binding to particulate matter with a high metal content. RSC Advances, 2018, 8, 5953-5959.	3.6	4
42	Screening of bacteria-binding peptides and one-pot ZnO surface modification for bacterial cell entrapment. RSC Advances, 2018, 8, 8795-8799.	3.6	14
43	Integrated molecular analysis of the inactivation of a non-enveloped virus, feline calicivirus, by UV-C radiation. Journal of Bioscience and Bioengineering, 2018, 126, 63-68.	2.2	15
44	Highly Selective Rational Design of Peptide-Based Surface Plasmon Resonance Sensor for Direct Determination of 2,4,6-trinitrotoluene (TNT) Explosive. Sensors and Actuators B: Chemical, 2018, 264, 279-284.	7.8	41
45	Identification of Individual Bacterial Cells through the Intermolecular Interactions with Peptide-Functionalized Solid-State Pores. Analytical Chemistry, 2018, 90, 1511-1515.	6.5	34
46	Identifying Single Viruses Using Biorecognition Solid-State Nanopores. Journal of the American Chemical Society, 2018, 140, 16834-16841.	13.7	81
47	An SPR Sensor Chip Based on Peptide-Modified Single-Walled Carbon Nanotubes with Enhanced Sensitivity and Selectivity in the Detection of 2,4,6-Trinitrotoluene Explosives. Sensors, 2018, 18, 4461.	3.8	18
48	Selective detections of single-viruses using solid-state nanopores. Scientific Reports, 2018, 8, 16305.	3.3	65
49	Enhanced Tubulation of Liposome Containing Cardiolipin by MamY Protein from Magnetotactic Bacteria. Biotechnology Journal, 2018, 13, 1800087.	3.5	12
50	Molecular Mechanism of Magnetic Crystal Formation in Magnetotactic Bacteria. , 2018, , 23-51.		3
51	Characterization of particulate matter binding peptides screened from phage display. Journal of Bioscience and Bioengineering, 2017, 123, 621-624.	2.2	8
52	UV-C irradiation accelerates neutral lipid synthesis in the marine oleaginous diatom Fistulifera solaris. Bioresource Technology, 2017, 245, 1520-1526.	9.6	13
53	Array-based functional peptide screening and characterization of gold nanoparticle synthesis. Acta Biomaterialia, 2017, 49, 495-506.	8.3	25
54	Screening of peptides associated with adhesion and aggregation of Lactobacillus rhamnosus GG in vitro. Biochemical Engineering Journal, 2017, 128, 178-185.	3.6	20

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55	Array-Based Rational Design of Short Peptide Probe-Derived from an Anti-TNT Monoclonal Antibody. ACS Combinatorial Science, 2017, 19, 625-632.	3.8	29
56	Detection of Her2-overexpressing cancer cells using keyhole shaped chamber array employing a magnetic droplet-handling system. Biosensors and Bioelectronics, 2017, 93, 32-39.	10.1	6
57	Rational Design of Peptide-Functionalized Surface Plasmon Resonance Sensor for Specific Detection of TNT Explosive. Sensors, 2017, 17, 2249.	3.8	12
58	Quantitative and time-course analysis of microbial degradation of 1H,1H,2H,2H,8H,8Hâ€“perfluorododecanol in activated sludge. Applied Microbiology and Biotechnology, 2017, 101, 8259-8266.	3.6	2
59	Core Amino Acid Residues in the Morphology-Regulating Protein, Mms6, for Intracellular Magnetite Biomineralization. Scientific Reports, 2016, 6, 35670.	3.3	20
60	Bacterial Inactivation by Applying an Alternating Electromagnetic Field Using PAMAM Dendron-modified Magnetic Nanoparticles. Electrochemistry, 2016, 84, 324-327.	1.4	5
61	Biomagnetic Recovery and Bioaccumulation of Selenium Granules in Magnetotactic Bacteria. Applied and Environmental Microbiology, 2016, 82, 3886-3891.	3.1	34
62	Comparative Subcellular Localization Analysis of Magnetosome Proteins Reveals a Unique Localization Behavior of Mms6 Protein onto Magnetite Crystals. Journal of Bacteriology, 2016, 198, 2794-2802.	2.2	26
63	Rapid Colorimetric Antibody Detection Using a Dual-function Peptide Probe for Silver Nanoparticle Aggregation and Antibody Recognition. Analytical Sciences, 2016, 32, 93-97.	1.6	9
64	Control of magnetite nanocrystal morphology in magnetotactic bacteria by regulation of mms7 gene expression. Scientific Reports, 2016, 6, 29785.	3.3	28
65	Oil Accumulation by the Oleaginous Diatom Fistulifera solaris as Revealed by the Genome and Transcriptome. Plant Cell, 2015, 27, 162-176.	6.6	149
66	Bioinspired Magnetite Crystallization Directed by Random Copolypeptides. Advanced Functional Materials, 2015, 25, 711-719.	14.9	32
67	Crystal Growth of Aspirin Using a Temperature-Controlled Microfluidic Device. Crystal Growth and Design, 2015, 15, 4549-4555.	3.0	5
68	Controlled radical polymerization of styrene with magnetic iron oxides prepared through hydrothermal, bioinspired, and bacterial processes. RSC Advances, 2015, 5, 51122-51129.	3.6	2
69	Reprint of: DNA recovery from a single bacterial cell based on electrostatic interaction using amine dendron-modified magnetic nanoparticles. Electrochimica Acta, 2015, 183, 143-147.	5.2	0
70	Design of a dual-function peptide probe as a binder of angiotensin II and an inducer of silver nanoparticle aggregation for use in label-free colorimetric assays. Talanta, 2015, 142, 235-239.	5.5	16
71	Enhancement of glycerol metabolism in the oleaginous marine diatom Fistulifera solaris JPCC DA0580 to improve triacylglycerol productivity. Biotechnology for Biofuels, 2015, 8, 4.	6.2	56
72	DNA recovery from a single bacterial cell based on electrostatic interaction using amine dendron-modified magnetic nanoparticles. Electrochimica Acta, 2015, 168, 308-312.	5.2	5

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73	A molecular peptide beacon for IgG detection. RSC Advances, 2015, 5, 91988-91992.	3.6	7
74	Biomineralization-inspired synthesis of functional organic/inorganic hybrid materials: organic molecular control of self-organization of hybrids. Organic and Biomolecular Chemistry, 2015, 13, 974-989.	2.8	139
75	Capsid protein oxidation in feline calicivirus using an electrochemical inactivation treatment. Journal of Hazardous Materials, 2015, 283, 410-415.	12.4	14
76	A Bioinspired Coprecipitation Method for the Controlled Synthesis of Magnetite Nanoparticles. Crystal Growth and Design, 2014, 14, 5561-5568.	3.0	61
77	Coâ€ordinated functions of <scp>Mms</scp> proteins define the surface structure of cuboâ€octahedral magnetite crystals in magnetotactic bacteria. Molecular Microbiology, 2014, 93, 554-567.	2.5	58
78	Functionalization of Magnetotactic Bacteria for Microrobotic Applications. IEEE Transactions on Magnetics, 2014, 50, 1-4.	2.1	4
79	Identification of a frustule-associated protein of the marine pennate diatom Fistulifera sp. strain JPCC DA0580. Marine Genomics, 2014, 16, 39-44.	1.1	13
80	Tracking Difference in Gene Expression in a Time-Course Experiment Using Gene Set Enrichment Analysis. PLoS ONE, 2014, 9, e107629.	2.5	4
81	Proteomics Analysis of Oil Body-Associated Proteins in the Oleaginous Diatom. Journal of Proteome Research, 2013, 12, 5293-5301.	3.7	56
82	A process design and productivity evaluation for oil production by indoor mass cultivation of a marine diatom, Fistulifera sp. JPCC DA0580. Bioresource Technology, 2013, 137, 132-138.	9.6	42
83	Glycosylceramides from marine green microalga Tetraselmis sp.. Phytochemistry, 2013, 85, 107-114.	2.9	16
84	Draft Genome Sequence of Marine Cyanobacterium Synechococcus sp. Strain NKBG15041c. Genome Announcements, 2013, 1, .	0.8	11
85	Identification and Functional Analysis of Delta-9 Desaturase, a Key Enzyme in PUFA Synthesis, Isolated from the Oleaginous Diatom Fistulifera. PLoS ONE, 2013, 8, e73507.	2.5	20
86	Biologically synthesized or bioinspired process-derived iron oxides as catalysts for living cationic polymerization of a vinyl ether. Chemical Communications, 2012, 48, 10904.	4.1	20
87	Efficient DNA release from PAMAM dendrimer-modified superparamagnetic nanoparticles for DNA recovery. Polymer Journal, 2012, 44, 672-677.	2.7	18
88	Effective expression of human proteins on bacterial magnetic particles in an anchor gene deletion mutant of Magnetospirillum magneticum AMB-1. Biochemical and Biophysical Research Communications, 2012, 426, 7-11.	2.1	23
89	Highest levels of Cu, Mn and Co doped into nanomagnetic magnetosomes through optimized biomineralisation. Journal of Materials Chemistry, 2012, 22, 11919.	6.7	40
90	Fabrication of Lipid Tubules with Embedded Quantum Dots by Membrane Tubulation Protein. Small, 2012, 8, 1590-1595.	10.0	15

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91	Effect of magnetite nanoparticles on living rate of MCF-7 human breast cancer cells. Colloids and Surfaces B: Biointerfaces, 2012, 95, 254-257.	5.0	30
92	Characterization of magnetic nanoparticles modified with thiol functionalized PAMAM dendron for DNA recovery. Journal of Colloid and Interface Science, 2012, 377, 469-475.	9.4	27
93	Magnetic bacterial protein Mms6 controls morphology, crystallinity and magnetism of cobalt-doped magnetite nanoparticles in vitro. Journal of Materials Chemistry, 2011, 21, 15244.	6.7	63
94	Altererythrobacter ishigakiensis sp. nov., an astaxanthin-producing bacterium isolated from a marine sediment. International Journal of Systematic and Evolutionary Microbiology, 2011, 61, 2956-2961.	1.7	63
95	MMS6 Protein Regulates Crystal Morphology during Nano-sized Magnetite Biomineralization in Vivo. Journal of Biological Chemistry, 2011, 286, 6386-6392.	3.4	155
96	Structure and Function of Small Heat Shock Proteins from the Magnetotactic Bacterium Magnetospirillum magneticum AMB-1. Kobunshi Ronbunshu, 2010, 67, 698-704.	0.2	1
97	Microbial biodegradation of a novel fluorotelomer alcohol, 1H,1H,2H,2H,8H,8H-perfluorododecanol, yields short fluorinated acids. Applied Microbiology and Biotechnology, 2010, 88, 1193-1203.	3.6	18
98	TCRâ€î² repertoire analysis of antigenâ€specific single T cells using a highâ€density microcavity array. Biotechnology and Bioengineering, 2010, 106, 311-318.	3.3	9
99	Control of the morphology and size of magnetite particles with peptides mimicking the Mms6 protein from magnetotactic bacteria. Journal of Colloid and Interface Science, 2010, 343, 65-70.	9.4	124
100	Identification and functional characterization of liposome tubulation protein from magnetotactic bacteria. Molecular Microbiology, 2010, 76, 480-488.	2.5	49
101	Preparation of Genomic DNA from a Single Species of Uncultured Magnetotactic Bacterium by Multiple-Displacement Amplification. Applied and Environmental Microbiology, 2010, 76, 1480-1485.	3.1	28
102	Size-Selective Microcavity Array for Rapid and Efficient Detection of Circulating Tumor Cells. Analytical Chemistry, 2010, 82, 6629-6635.	6.5	309
103	Simultaneously Discrete Biomineralization of Magnetite and Tellurium Nanocrystals in Magnetotactic Bacteria. Applied and Environmental Microbiology, 2010, 76, 5526-5532.	3.1	42
104	Iron oxide crystal formation on a substrate modified with the Mms6 protein from magnetotactic bacteria. Materials Research Society Symposia Proceedings, 2009, 1187, 46.	0.1	10
105	Gold Biorecovery from Plating Waste by Magnetotactic Bacterium, Magnetospirillum magneticum AMB-1. Materials Research Society Symposia Proceedings, 2009, 1169, 312.	0.1	3
106	Proteomic analysis of irregular, bulletâ€shaped magnetosomes in the sulphateâ€reducing magnetotactic bacterium Desulfovibrio magneticus RSâ€1. Proteomics, 2009, 9, 3341-3352.	2.2	32
107	High-Density Microcavity Array for Cell Detection: Single-Cell Analysis of Hematopoietic Stem Cells in Peripheral Blood Mononuclear Cells. Analytical Chemistry, 2009, 81, 5308-5313.	6.5	74
108	Whole genome sequence of Desulfovibrio magneticus strain RS-1 revealed common gene clusters in magnetotactic bacteria. Genome Research, 2009, 19, 1801-1808.	5.5	103

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109	Formation of magnetite by bacteria and its application. Journal of the Royal Society Interface, 2008, 5, 977-999.	3.4	218
110	High-Efficiency Single-Cell Entrapment and Fluorescence in Situ Hybridization Analysis Using a Poly(dimethylsiloxane) Microfluidic Device Integrated with a Black Poly(ethylene terephthalate) Micromesh. Analytical Chemistry, 2008, 80, 5139-5145.	6.5	57
111	Development of a Cell Surface Display System in a Magnetotactic Bacterium, â€œ Magnetospirillum magneticum â€•AMB-1. Applied and Environmental Microbiology, 2008, 74, 3342-3348.	3.1	22
112	Quantitative Detection of Immunoreaction using Magnetite Nanoparticles and Raman Scattering Spectroscopy. E-Journal of Surface Science and Nanotechnology, 2008, 6, 142-146.	0.4	2
113	Detection ofCryptosporidium parvum oocysts using a microfluidic device equipped with the SUS micromesh and FITC-labeled antibody. Biotechnology and Bioengineering, 2007, 96, 272-280.	3.3	33
114	Cytoplasmic ATPase involved in ferrous ion uptake from magnetotactic bacteriumMagnetospirillum magneticumAMB-1. FEBS Letters, 2007, 581, 3443-3448.	2.8	16
115	Molecular analysis of magnetotactic bacteria and development of functional bacterial magnetic particles for nano-biotechnology. Trends in Biotechnology, 2007, 25, 182-188.	9.3	115
116	Controlled formation of magnetite crystal by partial oxidation of ferrous hydroxide in the presence of recombinant magnetotactic bacterial protein Mms6. Biomaterials, 2007, 28, 5381-5389.	11.4	241
117	Origin of magnetosome membrane: Proteomic analysis of magnetosome membrane and comparison with cytoplasmic membrane. Proteomics, 2006, 6, 5234-5247.	2.2	136
118	Synthesis of magnetic nanoparticles and their application to bioassays. Analytical and Bioanalytical Chemistry, 2006, 384, 593-600.	3.7	166
119	Detection of biomolecular interaction between biotin and streptavidin on a self-assembled monolayer using magnetic nanoparticles. Biotechnology and Bioengineering, 2004, 88, 543-546.	3.3	47
120	Fully automated DNA extraction from blood using magnetic particles modified with a hyperbranched polyamidoamine dendrimer. Journal of Bioscience and Bioengineering, 2003, 95, 21-26.	2.2	78
121	Single-nucleotide polymorphism analysis using fluorescence resonance energy transfer between DNA-labeling fluorophore, fluorescein isothiocyanate, and DNA intercalator, POPO-3, on bacterial magnetic particles. Biotechnology and Bioengineering, 2003, 84, 96-102.	3.3	60
122	Single nucleotide mismatch analysis using oligonucleotide probes synthesized on bacterial magnetic particle. New Biotechnology, 2003, 20, 305-309.	2.7	2
123	A Novel Protein Tightly Bound to Bacterial Magnetic Particles in Magnetospirillum magneticum Strain AMB-1. Journal of Biological Chemistry, 2003, 278, 8745-8750.	3.4	342
124	DNA extraction using bacterial magnetic particles modified with hyperbranched polyamidoamine dendrimer. Journal of Biotechnology, 2003, 101, 219-228.	3.8	108
125	Desulfovibrio magneticus sp. nov., a novel sulfate-reducing bacterium that produces intracellular single-domain-sized magnetite particles.. International Journal of Systematic and Evolutionary Microbiology, 2002, 52, 215-221.	1.7	152
126	Solution Phase and Solid Supported Syntheses of End-Functionalized Poly(MMA) by Aldol-Type Reaction of Samarium(III) Enolate at the Chain End. Macromolecules, 2002, 35, 6845-6850.	4.8	9

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127	Preparation of luciferase-bacterial magnetic particle complex by artificial integration of MagA-luciferase fusion protein into the bacterial magnetic particle membrane. Biotechnology and Bioengineering, 2002, 77, 614-618.	3.3	24
128	Cadmium Recovery by a Sulfate-Reducing Magnetotactic Bacterium, Desulfovibrio magneticus RS-1, Using Magnetic Separation. Applied Biochemistry and Biotechnology, 2002, 98-100, 833-840.	2.9	36