

Tohuru Takarada

List of Publications by Year in descending order

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76
papers

2,305
citations

185998

28
h-index

223531

46
g-index

79
all docs

79
docs citations

79
times ranked

2347
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoactivation of a Substrate for Cell Adhesion under Standard Fluorescence Microscopes. <i>Journal of the American Chemical Society</i> , 2004, 126, 16314-16315.	6.6	174
2	Enantioselective Incorporation of Azobenzenes into Oligodeoxyribonucleotide for Effective Photoregulation of Duplex Formation. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2671-2673.	7.2	130
3	Rapid naked-eye detection of mercury ions based on non-crosslinking aggregation of double-stranded DNA-carrying gold nanoparticles. <i>Chemical Communications</i> , 2011, 47, 2077.	2.2	129
4	Spatiotemporal Control of Migration of Single Cells on a Photoactivatable Cell Microarray. <i>Journal of the American Chemical Society</i> , 2007, 129, 6694-6695.	6.6	122
5	Recent Advances in Cell Micropatterning Techniques for Bioanalytical and Biomedical Sciences. <i>Analytical Sciences</i> , 2008, 24, 67-72.	0.8	109
6	DNA-Dye Conjugates for Controllable H ⁺ Aggregation. <i>Journal of the American Chemical Society</i> , 2003, 125, 2217-2223.	6.6	91
7	Spatiotemporal control of cell adhesion on a self-assembled monolayer having a photocleavable protecting group. <i>Analytica Chimica Acta</i> , 2006, 578, 100-104.	2.6	73
8	Iodine-Mediated Etching of Triangular Gold Nanoplates for Colorimetric Sensing of Copper Ion and Aptasensing of Chloramphenicol. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34518-34525.	4.0	70
9	FRET-based monitoring of conformational change of the β_2 adrenergic receptor in living cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 343, 1191-1196.	1.0	67
10	Catalytic Hydrolysis of Peptides by Cerium(IV). <i>Chemistry - A European Journal</i> , 2000, 6, 3906-3913.	1.7	60
11	Metal-ion-assisted hydrolysis of dipeptides involving a serine residue in a neutral aqueous solution. Electronic supplementary information (ESI) available: Kinetic studies involving pH and concentration profiles of the rate constant. See http://www.rsc.org/suppdata/ob/b2/b209565c/ . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 629-632.	1.5	54
12	pH-responsive release of proteins from biocompatible and biodegradable reverse polymer micelles. <i>Journal of Controlled Release</i> , 2014, 173, 89-95.	4.8	53
13	Turbidimetric detection of ATP using polymeric micelles and DNA aptamers. <i>Chemical Communications</i> , 2007, , 4743.	2.2	52
14	Arraying Heterotypic Single Cells on Photoactivatable Cell-Culturing Substrates. <i>Langmuir</i> , 2008, 24, 13084-13095.	1.6	52
15	Cross-Linking versus Non-Cross-Linking Aggregation of Gold Nanoparticles Induced by DNA Hybridization: A Comparison of the Rapidity of Solution Color Change. <i>Bioconjugate Chemistry</i> , 2017, 28, 270-277.	1.8	51
16	Rapid Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanorods and Nanotriangles for Colorimetric Single-Nucleotide Discrimination. <i>Chemistry - A European Journal</i> , 2016, 22, 258-263.	1.7	48
17	Spiropyran as a Regulator of DNA Hybridization with Reversed Switching Mode to That of Azobenzene. <i>Chemistry Letters</i> , 2001, 30, 108-109.	0.7	42
18	RAFT-generated poly(N-isopropylacrylamide)-DNA block copolymers for temperature-responsive formation of polymer micelles. <i>Reactive and Functional Polymers</i> , 2011, 71, 367-371.	2.0	42

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19	DNA-functionalized thermoresponsive bioconjugates synthesized via ATRP and click chemistry. <i>Polymer</i> , 2011, 52, 895-900.	1.8	42
20	Structural study on gold nanoparticle functionalized with DNA and its non-cross-linking aggregation. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 629-635.	5.0	41
21	Directed Assembly of Gold Nanorods by Terminal Base Pairing of Surface Grafted DNA. <i>Small</i> , 2017, 13, 1702137.	5.2	41
22	Cerium(IV) cyclodextrin complex for peptide hydrolysis in neutral homogeneous solutions. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1757-1758.	2.0	39
23	Thermoresponsive Micellization and Micellar Stability of Poly(<i>N</i> -isopropylacrylamide)-DNA Diblock and Miktoarm Star Polymers. <i>Langmuir</i> , 2012, 28, 14347-14356.	1.6	36
24	Catalytic Hydrolysis of Peptides by Cerium(IV). <i>Chemistry - A European Journal</i> , 2000, 6, 3906-3913.	1.7	32
25	Modulation of Interparticle Distance in Discrete Gold Nanoparticle Dimers and Trimers by DNA Single Base Pairing. <i>Small</i> , 2015, 11, 3153-3161.	5.2	32
26	Target-Recycling-Amplified Colorimetric Detection of Pollen Allergen Using Non-Cross-Linking Aggregation of DNA-Modified Gold Nanoparticles. <i>ACS Sensors</i> , 2019, 4, 363-369.	4.0	32
27	DNA Terminal Breathing Regulated by Metal Ions for Colloidal Logic Gates. <i>Chemistry - A European Journal</i> , 2013, 19, 10794-10798.	1.7	31
28	DNA Dangling End Induced Colloidal Stabilization of Gold Nanoparticles for Colorimetric Single Nucleotide Polymorphism Genotyping. <i>Chemistry - A European Journal</i> , 2014, 20, 17420-17425.	1.7	29
29	Opposite Effects of Flexible Single-Stranded DNA Regions and Rigid Loops in DNAzyme on Colloidal Nanoparticle Stability for Turn-On Plasmonic Detection of Lead Ions. <i>ACS Applied Bio Materials</i> , 2020, 3, 7003-7010.	2.3	29
30	The separation of oligodeoxynucleotides having a single-base difference by affinity capillary electrophoresis using oligodeoxynucleotide-polyacrylamide conjugate. <i>Electrophoresis</i> , 2002, 23, 2267.	1.3	28
31	RAFT-Generated Polyacrylamide-DNA Block Copolymers for Single-Nucleotide Polymorphism Genotyping by Affinity Capillary Electrophoresis. <i>Biomacromolecules</i> , 2009, 10, 805-813.	2.6	22
32	Rapid Naked Eye Discrimination of Cytochrome P450 Genetic Polymorphism through Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanoparticles. <i>ChemistryOpen</i> , 2016, 5, 508-512.	0.9	22
33	DNA Terminal Mismatch Induced Stabilization of Polymer Micelles from RAFT-Generated Poly(<i>N</i> -isopropylacrylamide)-DNA Block Copolymers. <i>Chemistry - an Asian Journal</i> , 2013, 8, 3079-3084.	1.7	21
34	Shape-selective isolation of Au nanoplates from complex colloidal media by depletion flocculation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 568, 216-223.	2.3	20
35	Solubilization of lanthanide ions by cyclodextrins in basic aqueous solutions. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1994, 17, 393-397.	1.6	19
36	Estimation of Binding Constants of Peptide Nucleic Acid and Secondary-Structured DNA by Affinity Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2012, 84, 5204-5209.	3.2	18

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37	Lanthanide Complexes with High Stability and Efficiency for the Hydrolysis of a Ribonucleotide Dimer. <i>Chemistry Letters</i> , 1995, 24, 665-666.	0.7	17
38	Chemically Fueled Plasmon Switching of Gold Nanorods by Single-Base Pairing of Surface-Grafted DNA. <i>Langmuir</i> , 2019, 35, 11710-11716.	1.6	16
39	Colloidal Nanoparticles from Poly(N-isopropylacrylamide)-graft-DNA for Single Nucleotide Discrimination Based on Salt-induced Aggregation: Extension to Long Target DNA. <i>Chemistry Letters</i> , 2004, 33, 1602-1603.	0.7	15
40	Capillary Electrophoretic Discrimination of Single Nucleotide Polymorphisms Using an Oligodeoxyribonucleotide-polyacrylamide Conjugate as a Pseudo-immobilized Affinity Ligand: Optimum Ligand Length Predicted by the Melting Temperature Values. <i>Analytical Sciences</i> , 2005, 21, 25-29.	0.8	15
41	Evaluation of single-base substitution rate in DNA by affinity capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2008, 619, 101-109.	2.6	15
42	Structural characterization of nanoparticles from thermoresponsive poly(N-isopropylacrylamide)-DNA conjugate. <i>Journal of Colloid and Interface Science</i> , 2012, 374, 315-320.	5.0	15
43	Non-Cross-Linking Aggregation of DNA-Carrying Polymer Micelles Triggered by Duplex Formation. <i>Langmuir</i> , 2018, 34, 14899-14910.	1.6	15
44	Oligodeoxynucleotide-Modified Capillary for Electrophoretic Separation of Single-Stranded DNAs with a Single-Base Difference.. <i>Analytical Sciences</i> , 2003, 19, 73-77.	0.8	14
45	A MutS Protein-immobilized Au Electrode for Detecting Single-base Mismatch of DNA. <i>Analytical Sciences</i> , 2006, 22, 663-666.	0.8	14
46	Poly(ethylene glycol)-oligodeoxyribonucleotide block copolymers for affinity capillary electrophoretic separation of single-stranded DNAs with a single-base difference. <i>Reactive and Functional Polymers</i> , 2007, 67, 1373-1380.	2.0	13
47	Accelerated non-crosslinking assembly of DNA-functionalized nanoparticles in alcoholic solvents: for application in the identification of clear liquors. <i>Analyst</i> , The, 2020, 145, 3229-3235.	1.7	13
48	Lanthanide ion-induced hydrolyses of alkyl esters and amides of α -amino acids. <i>Journal of Physical Organic Chemistry</i> , 1998, 11, 41-46.	0.9	12
49	Introducing DNA Nanosensor to Undergraduate Students: Rapid Non-Cross-Linking Aggregation of DNA-Functionalized Gold Nanoparticles for Colorimetric DNA Assay. <i>Journal of Chemical Education</i> , 2021, 98, 3553-3559.	1.1	12
50	Affinity capillary electrophoretic DNA separation using PEG-oligodeoxyribonucleotide block copolymers: Relationship between peak resolution and affinity strength. <i>Journal of Separation Science</i> , 2008, 31, 837-844.	1.3	11
51	Folding of Nanoparticle Chains into 2D Arrays: Structural Change of DNA-Functionalized Gold Nanoparticle Assemblies. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800189.	1.9	11
52	Reversible Shrinkage of DNA-Functionalized Gold Nanoparticle Assemblies Revealed by Surface Plasmon Resonance. <i>Biotechnology Journal</i> , 2018, 13, e1800090.	1.8	11
53	Connecting Nanoparticles with Different Colloidal Stability by DNA for Programmed Anisotropic Self-Assembly. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15293-15300.	1.5	11
54	Photo-switching of blunt-end stacking between DNA strands immobilized on gold nanoparticles. <i>Chemical Communications</i> , 2020, 56, 14589-14592.	2.2	11

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55	DNA Base Pair Stacking Assembly of Anisotropic Nanoparticles for Biosensing and Ordered Assembly. <i>Analytical Sciences</i> , 2021, 37, 415-419.	0.8	11
56	Identifying Exogenous DNA in Liquid Foods by Gold Nanoparticles: Potential Applications in Traceability. <i>ACS Food Science & Technology</i> , 2021, 1, 605-613.	1.3	11
57	Quantitative single-nucleotide polymorphism analysis in secondary-structured DNA by affinity capillary electrophoresis using a polyethylene glycol- α -peptide nucleic acid block copolymer. <i>Analytical Biochemistry</i> , 2013, 433, 150-152.	1.1	10
58	Hierarchical growth of Au nanograss with intense built-in hotspots for plasmonic applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16073-16082.	2.7	10
59	Regioselective DNA Modification and Directed Self-Assembly of Triangular Gold Nanoplates. <i>Nanomaterials</i> , 2019, 9, 581.	1.9	9
60	Precise patterning of photoactivatable glass coverslip for fluorescence observation of shape-controlled cells. <i>Supramolecular Chemistry</i> , 2010, 22, 396-405.	1.5	8
61	Quantitative $\langle \text{sc} \rangle$ SNP $\langle \text{sc} \rangle$ genotyping by affinity capillary electrophoresis using $\langle \text{sc} \rangle$ PEG $\langle \text{sc} \rangle$ oligodeoxyribonucleotide block copolymers with electroosmotic flow. <i>Electrophoresis</i> , 2012, 33, 2122-2129.	1.3	8
62	DNA-Conjugated Polymers for Reliable SNP Genotyping Based on Affinity Capillary Electrophoresis. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 547-556.	2.0	8
63	Thermodynamics-based Rational Design of DNA Block Copolymers for Quantitative Detection of Single-Nucleotide Polymorphisms by Affinity Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2014, 86, 11425-11433.	3.2	7
64	Range-tunable plasmon switching of gold nanorods by terminal breathing of surface-grafted DNA in alcoholic solvents. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5105-5112.	2.7	6
65	Rapid Naked-Eye Discrimination of Cytochrome P450 Genetic Polymorphism through Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanoparticles. <i>ChemistryOpen</i> , 2016, 5, 507-507.	0.9	5
66	Dumbbell-Shaped DNA Analytes Amplified by Polymerase Chain Reaction for Robust Single-Nucleotide Polymorphism Genotyping by Affinity Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2013, 85, 5347-5352.	3.2	4
67	Non-Crosslinking Aggregation of DNA-Functionalized Gold Nanoparticles for Gene Diagnosis and Directed Assembly. <i>ACS Symposium Series</i> , 2019, , 119-138.	0.5	4
68	Plasmon switching of gold nanoparticles through thermo-responsive terminal breathing of surface-grafted DNA in hydrated ionic liquids. <i>Analyst</i> , 2021, 146, 4154-4160.	1.7	4
69	DNA-Programmed Bimodal 2D Assembly of Differently Sized Nanoparticles via Folding of Precursory Circular Chains. <i>Langmuir</i> , 2020, 36, 5588-5595.	1.6	3
70	Preparation of cell-culturing glass surfaces that release branched polyethyleneimine triggered by thiol- α -disulfide exchange. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 103, 360-365.	2.5	2
71	Gene Diagnosis Using DNA-linked Nanoparticles. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2004, 62, 534-539.	0.0	1
72	Gene Diagnosis Using DNA-Linked Nanoparticles. <i>ChemInform</i> , 2004, 35, no.	0.1	0

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73	Detection of base pairing of an oxidatively damaged guanine using colloidal stability change of DNA-linked polymer micelles. <i>Nucleic Acids Symposium Series</i> , 2007, 51, 305-306.	0.3	0
74	Gold Nanoparticles Modified with Double-stranded DNA for Analytical Applications. <i>Bunseki Kagaku</i> , 2015, 64, 15-23.	0.1	0
75	Directed Assembly: Directed Assembly of Gold Nanorods by Terminal-Base Pairing of Surface-Grafted DNA (<i>Small</i> 44/2017). <i>Small</i> , 2017, 13, .	5.2	0
76	Gene Mutation Assay by Affinity Microchip Electrophoresis Using DNA-Polyacrylamide Conjugate. , 2002, , 572-574.		0