

Ken Hirano

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,301
citations

331670

21
h-index

361022

35
g-index

51
all docs

51
docs citations

51
times ranked

1773
citing authors

#	ARTICLE	IF	CITATIONS
1	How environmental solution conditions determine the compaction velocity of single DNA molecules. <i>Nucleic Acids Research</i> , 2012, 40, 284-289.	14.5	153
2	DNA Manipulation and Retrieval from an Aqueous Solution with Micromachined Nanotweezers. <i>Analytical Chemistry</i> , 2003, 75, 4347-4350.	6.5	80
3	Automated manipulation of non-spherical micro-objects using optical tweezers combined with image processing techniques. <i>Optics Express</i> , 2008, 16, 15115.	3.4	72
4	Real-time observation of a single DNA digestion by lambda exonuclease under a fluorescence microscope field. <i>Nucleic Acids Research</i> , 2001, 29, 79e-79.	14.5	64
5	Near-infrared laser-triggered carbon nanohorns for selective elimination of microbes. <i>Nanotechnology</i> , 2007, 18, 475103.	2.6	57
6	Pinophilins A and B, Inhibitors of Mammalian A-, B-, and Y-Family DNA Polymerases and Human Cancer Cell Proliferation. <i>Journal of Natural Products</i> , 2012, 75, 135-141.	3.0	53
7	Photoinduced antiviral carbon nanohorns. <i>Nanotechnology</i> , 2008, 19, 075106.	2.6	52
8	Manipulation of single coiled DNA molecules by laser clustering of microparticles. <i>Applied Physics Letters</i> , 2002, 80, 515-517.	3.3	49
9	Photodynamic Thermo-responsive Nanocarbon-Polymer Gel Hybrids. <i>Small</i> , 2008, 4, 1711-1715.	10.0	47
10	High-speed separation of proteins by microchip electrophoresis using a polyethylene glycol-coated plastic chip with a sodium dodecyl sulfate-linear polyacrylamide solution. <i>Electrophoresis</i> , 2005, 26, 2687-2691.	2.4	45
11	Carbon Nanotube-Polymer Composite for Light-Driven Microthermal Control. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3610-3613.	13.8	45
12	Direct laser trapping of single DNA molecules in the globular state. <i>Nucleic Acids Research</i> , 1998, 26, 4943-4945.	14.5	44
13	Microchip electrophoretic protein separation using electroosmotic flow induced by dynamic sodium dodecyl sulfate-coating of uncoated plastic chips. <i>Electrophoresis</i> , 2005, 26, 2247-2253.	2.4	44
14	Evaluation of cell characteristics by step-wise orientational rotation using optoelectrostatic micromanipulation. <i>IEEE Transactions on Industry Applications</i> , 1997, 33, 1381-1388.	4.9	39
15	3-O-Methylfunicone, a Selective Inhibitor of Mammalian Y-Family DNA Polymerases from an Australian Sea Salt Fungal Strain. <i>Marine Drugs</i> , 2009, 7, 624-639.	4.6	39
16	Inhibitory effect of anthraquinones isolated from the Noni (<i>Morinda citrifolia</i>) root on animal A-, B- and Y-families of DNA polymerases and human cancer cell proliferation. <i>Food Chemistry</i> , 2010, 118, 725-730.	8.2	37
17	Development of a new detection method for DNA molecules. <i>Superconductor Science and Technology</i> , 2001, 14, 1131-1134.	3.5	29
18	Indirect micromanipulation of single molecules in water-in-oil emulsion. <i>Electrophoresis</i> , 2001, 22, 289-293.	2.4	28

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19	Manipulation of globular DNA molecules for sizing and separation. <i>Electrophoresis</i> , 2000, 21, 171-175.	2.4	23
20	Laser-triggered carbon nanotube microdevice for remote control of biocatalytic reactions. <i>Lab on a Chip</i> , 2009, 9, 788-794.	6.0	23
21	Laser Trapping of an Individual DNA Molecule Folded Using Various Condensing Agents. <i>Journal of the American Chemical Society</i> , 1999, 121, 11581-11582.	13.7	21
22	Micropatterned Carbon Nanotube-Gel Composite as Photothermal Material. <i>Advanced Materials</i> , 2009, 21, 2819-2823.	21.0	21
23	Photodynamic release of fullerenes from within carbon nanohorn. <i>Chemical Physics Letters</i> , 2008, 456, 220-222.	2.6	20
24	Light-Driven Thermoelectric Conversion Based on a Carbon Nanotube-Ionic Liquid Gel Composite. <i>ChemSusChem</i> , 2009, 2, 740-742.	6.8	18
25	Real-time three-dimensional orientation control of non-spherical micro-objects using laser trapping. <i>Electronics Letters</i> , 2007, 43, 412.	1.0	16
26	Measuring the Length Distribution of Self-Assembled Lipid Nanotubes by Orientation Control with a High-Frequency Alternating Current Electric Field in Aqueous Solutions. <i>Analytical Chemistry</i> , 2009, 81, 1459-1464.	6.5	15
27	Electric moulding of dispersed lipid nanotubes into a nanofluidic device. <i>Scientific Reports</i> , 2013, 3, 2165.	3.3	15
28	Plasmonic Imaging of Brownian Motion of Single DNA Molecules Spontaneously Binding to Ag Nanoparticles. <i>Nano Letters</i> , 2013, 13, 1877-1882.	9.1	14
29	Conformational separation of monosaccharides of glycoproteins labeled with 2-aminoacrydone using microchip electrophoresis. <i>Electrophoresis</i> , 2006, 27, 2002-2010.	2.4	13
30	Sizing of Single Globular DNA Molecules by Using a Circular Acceleration Technique with Laser Trapping. <i>Analytical Chemistry</i> , 2008, 80, 5197-5202.	6.5	13
31	Light-Triggered Thermoelectric Conversion Based on a Carbon Nanotube-Polymer Hybrid Gel. <i>ChemSusChem</i> , 2009, 2, 419-422.	6.8	12
32	Use of a heterogeneous buffer combination in microchip electrophoresis for high-resolution separation by on-line concentration of DNA samples. <i>Electrophoresis</i> , 2008, 29, 3744-3751.	2.4	11
33	Geometric manipulation of DNA molecules with a laser. <i>Applied Physics Letters</i> , 2002, 81, 3494-3496.	3.3	10
34	Surface-Enhanced Raman Scattering from Photoreduced Ag Nanoaggregates on an Optically Trapped Single Bacterium. <i>Bulletin of the Chemical Society of Japan</i> , 2011, 84, 976-978.	3.2	9
35	Plasmonic staining of DNA molecules with photo-induced Ag nanoparticles monitored using dark-field microscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10316.	2.8	9
36	Visualization and Optical Trapping of an Individual Submicrometer-Sized Assembly in Aqueous Solution: Amino-terminated Polyethylene Glycol (PEG-A) Complexed with Palmitic Acid and DNA in Poly(ethylene glycol) (PEG) Solution. <i>Journal of the American Chemical Society</i> , 2000, 122, 2200-2205.	13.7	7

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37	Marked difference in conformational fluctuation between giant DNA molecules in circular and linear forms. <i>Journal of Chemical Physics</i> , 2015, 142, 145101.	3.0	7
38	Stretching of single DNA molecules caused by accelerating flow on a microchip. <i>Journal of Chemical Physics</i> , 2018, 149, 165101.	3.0	7
39	Analysis of supercoiled DNA by agarose gel electrophoresis using low-conducting sodium threonine medium. <i>Analytical Biochemistry</i> , 2010, 400, 148-150.	2.4	5
40	Consecutive incorporation of fluorophore-labeled nucleotides by mammalian DNA polymerase β . <i>Analytical Biochemistry</i> , 2010, 405, 160-167.	2.4	5
41	Characterization of DNA polymerase β from <i>Danio rerio</i> by overexpression in <i>E. coli</i> using the in vivo/in vitro compatible pVEX plasmid. <i>Microbial Cell Factories</i> , 2011, 10, 84.	4.0	5
42	Bone Mineral Analogue Ceramic Block as an Instant Adhesive to Biological Soft Tissue. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002032.	3.7	4
43	Rapid sequencing gel electrophoresis using glycerol-tolerant sodium taurine medium. <i>Analytical Biochemistry</i> , 2009, 390, 100-101.	2.4	3
44	Molecular ring toss of circular BAC DNA using micropillar array for single-molecule studies. <i>Biomicrofluidics</i> , 2020, 14, 014115.	2.4	2
45	Molecular Processing of a Single DNA Inside Channels for Genome Analysis. , 2000, , 439-442.		2
46	Novel DNA Manipulation Based on Local Temperature Control: Transportation and Scission. , 1998, , 415-418.		2
47	Development of PC controlled laser manipulation system with image processing functions. , 2006, , .		1
48	Stretching and cutting of a single DNA molecule. , 0, , .		0
49	Narrow-gap DNA tweezers for short DNA molecules. , 2004, , .		0
50	Biomaterials: Bone Mineral Analogue Ceramic Block as an Instant Adhesive to Biological Soft Tissue (<i>Adv. Mater. Interfaces</i> 6/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170033.	3.7	0