

Kenichi Nagase

List of Publications by Year in descending order

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92
papers

3,883
citations

81900

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133252

59
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101
all docs

101
docs citations

101
times ranked

2998
citing authors

#	ARTICLE	IF	CITATIONS
1	Poly(N-isopropylacrylamide)-based thermoresponsive surfaces provide new types of biomedical applications. <i>Biomaterials</i> , 2018, 153, 27-48.	11.4	297
2	Temperature-responsive intelligent interfaces for biomolecular separation and cell sheet engineering. <i>Journal of the Royal Society Interface</i> , 2009, 6, S293-309.	3.4	214
3	Cell sheet approach for tissue engineering and regenerative medicine. <i>Journal of Controlled Release</i> , 2014, 190, 228-239.	9.9	203
4	Effects of Graft Densities and Chain Lengths on Separation of Bioactive Compounds by Nanolayered Thermoresponsive Polymer Brush Surfaces. <i>Langmuir</i> , 2008, 24, 511-517.	3.5	160
5	Interfacial Property Modulation of Thermoresponsive Polymer Brush Surfaces and Their Interaction with Biomolecules. <i>Langmuir</i> , 2007, 23, 9409-9415.	3.5	143
6	Preparation of Thermoresponsive Cationic Copolymer Brush Surfaces and Application of the Surface to Separation of Biomolecules. <i>Biomacromolecules</i> , 2008, 9, 1340-1347.	5.4	119
7	Thermoresponsive-polymer-based materials for temperature-modulated bioanalysis and bioseparations. <i>Journal of Materials Chemistry B</i> , 2016, 4, 6381-6397.	5.8	94
8	Thermo-responsive Polymer Brushes as Intelligent Biointerfaces: Preparation via ATRP and Characterization. <i>Macromolecular Bioscience</i> , 2011, 11, 400-409.	4.1	85
9	Thermo-responsive polymer brush-grafted porous polystyrene beads for all-aqueous chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 522-529.	3.7	79
10	Thermally-modulated on/off-adsorption materials for pharmaceutical protein purification. <i>Biomaterials</i> , 2011, 32, 619-627.	11.4	78
11	Thermoresponsive Cationic Copolymer Brushes for Mesenchymal Stem Cell Separation. <i>Biomacromolecules</i> , 2015, 16, 532-540.	5.4	71
12	Dynamically cell separating thermo-functional biointerfaces with densely packed polymer brushes. <i>Journal of Materials Chemistry</i> , 2012, 22, 19514.	6.7	67
13	Influence of Graft Interface Polarity on Hydration/Dehydration of Grafted Thermoresponsive Polymer Brushes and Steroid Separation Using All-Aqueous Chromatography. <i>Langmuir</i> , 2008, 24, 10981-10987.	3.5	62
14	Thermoresponsive Polymer Brush Surfaces with Hydrophobic Groups for All-Aqueous Chromatography. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1247-1253.	8.0	61
15	High Stability of Thermoresponsive Polymer-Brush-Grafted Silica Beads as Chromatography Matrices. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1998-2008.	8.0	61
16	Self-Oscillating Polymer Brushes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7468-7471.	13.8	61
17	Real-time observation of coil-to-globule transition in thermosensitive poly(N-isopropylacrylamide) brushes by quartz crystal microbalance. <i>Polymer</i> , 2007, 48, 5713-5720.	3.8	57
18	Simultaneous Enhancement of Cell Proliferation and Thermally Induced Harvest Efficiency Based on Temperature-Responsive Cationic Copolymer-Grafted Microcarriers. <i>Biomacromolecules</i> , 2012, 13, 1765-1773.	5.4	56

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19	Poly(N-isopropylacrylamide) based thermoresponsive polymer brushes for bioseparation, cellular tissue fabrication, and nano actuators. <i>Nano Structures Nano Objects</i> , 2018, 16, 9-23.	3.5	56
20	Hydrophobized Thermoresponsive Copolymer Brushes for Cell Separation by Multistep Temperature Change. <i>Biomacromolecules</i> , 2013, 14, 3423-3433.	5.4	55
21	Thermoresponsive Polymer Brush on Monolithic-Silica-Rod for the High-Speed Separation of Bioactive Compounds. <i>Langmuir</i> , 2011, 27, 10830-10839.	3.5	51
22	Thermo-responsive protein adsorbing materials for purifying pharmaceutical protein on exposed charging surface. <i>Journal of Materials Chemistry</i> , 2011, 21, 2590-2593.	6.7	47
23	Phenotypic traits of mesenchymal stem cell sheets fabricated by temperature-responsive cell culture plate: structural characteristics of MSC sheets. <i>Stem Cell Research and Therapy</i> , 2019, 10, 353.	5.5	47
24	Monolithic Silica Rods Grafted with Thermoresponsive Anionic Polymer Brushes for High-Speed Separation of Basic Biomolecules and Peptides. <i>Biomacromolecules</i> , 2014, 15, 1204-1215.	5.4	46
25	Artificial cilia as autonomous nanoactuators: Design of a gradient self-oscillating polymer brush with controlled unidirectional motion. <i>Science Advances</i> , 2016, 2, e1600902.	10.3	46
26	Local Release of VEGF Using Fiber Mats Enables Effective Transplantation of Layered Cardiomyocyte Sheets. <i>Macromolecular Bioscience</i> , 2017, 17, 1700073.	4.1	45
27	Preparation of thermo-responsive polymer brushes on hydrophilic polymeric beads by surface-initiated atom transfer radical polymerization for a highly resolutive separation of peptides. <i>Journal of Chromatography A</i> , 2010, 1217, 5978-5985.	3.7	44
28	Effect of Polymer Phase Transition Behavior on Temperature-Responsive Polymer-Modified Liposomes for siRNA Transfection. <i>International Journal of Molecular Sciences</i> , 2019, 20, 430.	4.1	43
29	Thermoresponsive interfaces obtained using poly(N-isopropylacrylamide)-based copolymer for bioseparation and tissue engineering applications. <i>Advances in Colloid and Interface Science</i> , 2021, 295, 102487.	14.7	43
30	Effect of reaction solvent on the preparation of thermo-responsive stationary phase through a surface initiated atom transfer radical polymerization. <i>Journal of Chromatography A</i> , 2011, 1218, 8617-8628.	3.7	42
31	Thermally Modulated Cationic Copolymer Brush on Monolithic Silica Rods for High-Speed Separation of Acidic Biomolecules. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1442-1452.	8.0	42
32	Thermoresponsive Copolymer Brushes Possessing Quaternary Amine Groups for Strong Anion-Exchange Chromatographic Matrices. <i>Biomacromolecules</i> , 2014, 15, 1031-1043.	5.4	42
33	Thermoresponsive hydrophobic copolymer brushes modified porous monolithic silica for high-resolution bioseparation. <i>RSC Advances</i> , 2015, 5, 66155-66167.	3.6	42
34	Control of swelling—deswelling behavior of a self-oscillating gel by designing the chemical structure. <i>RSC Advances</i> , 2015, 5, 5781-5787.	3.6	42
35	Preparation of Thermoresponsive Anionic Copolymer Brush Surfaces for Separating Basic Biomolecules. <i>Biomacromolecules</i> , 2010, 11, 215-223.	5.4	41
36	Thermoresponsive Anionic Copolymer Brushes Containing Strong Acid Moieties for Effective Separation of Basic Biomolecules and Proteins. <i>Biomacromolecules</i> , 2014, 15, 3846-3858.	5.4	40

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37	Thermoresponsive polymer-modified microfibers for cell separations. <i>Acta Biomaterialia</i> , 2017, 53, 81-92.	8.3	40
38	Protein purification using solid-phase extraction on temperature-responsive hydrogel-modified silica beads. <i>Journal of Chromatography A</i> , 2018, 1568, 38-48.	3.7	40
39	Effective separation of peptides using highly dense thermo-responsive polymer brush-grafted porous polystyrene beads. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010, 878, 2191-2198.	2.3	39
40	Micro/nano-imprinted substrates grafted with a thermoresponsive polymer for thermally modulated cell separation. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5924-5930.	5.8	39
41	Thermally Modulated Retention of Lymphocytes on Polymer-Brush-Grafted Glass Beads. <i>Macromolecular Bioscience</i> , 2012, 12, 333-340.	4.1	38
42	Protein separations via thermally responsive ionic block copolymer brush layers. <i>RSC Advances</i> , 2016, 6, 26254-26263.	3.6	38
43	Stereoregulation of Thermoresponsive Polymer Brushes by Surface-Initiated Living Radical Polymerization and the Effect of Tacticity on Surface Wettability. <i>Langmuir</i> , 2010, 26, 17781-17784.	3.5	35
44	Design of Self-Oscillating Polymer Brushes and Control of the Dynamic Behaviors. <i>Chemistry of Materials</i> , 2015, 27, 7395-7402.	6.7	32
45	LAT1-Targeting Thermoresponsive Fluorescent Polymer Probes for Cancer Cell Imaging. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1646.	4.1	32
46	Liposomes with temperature-responsive reversible surface properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 309-316.	5.0	32
47	Thermoresponsive anionic copolymer brush-grafted surfaces for cell separation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110565.	5.0	32
48	Thermoresponsive Cationic Block Copolymer Brushes for Temperature-Modulated Stem Cell Separation. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000308.	3.9	32
49	Characteristic differences of cell sheets composed of mesenchymal stem cells with different tissue origins. <i>Regenerative Therapy</i> , 2019, 11, 34-40.	3.0	31
50	LAT1-Targeting Thermoresponsive Liposomes for Effective Cellular Uptake by Cancer Cells. <i>ACS Omega</i> , 2019, 4, 6443-6451.	3.5	31
51	Temperature-responsive chromatography for bioseparations: A review. <i>Analytica Chimica Acta</i> , 2020, 1138, 191-212.	5.4	31
52	Fabrication of Micropatterned Self-Oscillating Polymer Brush for Direction Control of Chemical Waves. <i>Small</i> , 2017, 13, 1700041.	10.0	29
53	Antibody drug separation using thermoresponsive anionic polymer brush modified beads with optimised electrostatic and hydrophobic interactions. <i>Scientific Reports</i> , 2020, 10, 11896.	3.3	29
54	Rearrangement of hollow fibers for enhancing oxygen transfer in an artificial gill using oxygen carrier solution. <i>Journal of Membrane Science</i> , 2005, 254, 207-217.	8.2	28

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55	Enhanced Wettability Changes by Synergistic Effect of Micro/Nanoimprinted Substrates and Grafted Thermoresponsive Polymer Brushes. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1965-1970.	3.9	26
56	Mixed polymer brush as a functional ligand of silica beads for temperature-modulated hydrophobic and electrostatic interactions. <i>Analytica Chimica Acta</i> , 2020, 1095, 1-13.	5.4	26
57	Oxygen transfer performance of a membrane oxygenator composed of crossed and parallel hollow fibers. <i>Biochemical Engineering Journal</i> , 2005, 24, 105-113.	3.6	24
58	Temperature-modulated cell-separation column using temperature-responsive cationic copolymer hydrogel-modified silica beads. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 253-262.	5.0	24
59	Selective capture and non-invasive release of cells using a thermoresponsive polymer brush with affinity peptides. <i>Biomaterials Science</i> , 2021, 9, 663-674.	5.4	23
60	Aspects of the Belousovâ€ŽZhabotinsky Reaction inside a Self-Oscillating Polymer Brush. <i>Langmuir</i> , 2018, 34, 1673-1680.	3.5	22
61	Mesenchymal Stem Cell Culture on Poly(N-isopropylacrylamide) Hydrogel with Repeated Thermo-Stimulation. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1253.	4.1	21
62	Thermoresponsive anionic block copolymer brushes with a strongly anionic bottom segment for effective interactions with biomolecules. <i>RSC Advances</i> , 2016, 6, 93169-93179.	3.6	20
63	Temperature-responsive mixed-mode column containing temperature-responsive polymer-modified beads and anionic polymer-modified beads. <i>Analytica Chimica Acta</i> , 2019, 1079, 220-229.	5.4	19
64	Enhanced mechanical properties and cell separation with thermal control of PIPAAm-brushed polymer-blend microfibers. <i>Journal of Materials Chemistry B</i> , 2020, 8, 6017-6026.	5.8	18
65	Thermally-modulated cell separation columns using a thermoresponsive block copolymer brush as a packing material for the purification of mesenchymal stem cells. <i>Biomaterials Science</i> , 2021, 9, 7054-7064.	5.4	18
66	Green analytical method for the simultaneous analysis of cytochrome P450 probe substrates by poly(N-isopropylacrylamide)-based temperature-responsive chromatography. <i>Scientific Reports</i> , 2020, 10, 8828.	3.3	16
67	Design of Tetra-arm PEG-crosslinked Thermoresponsive Hydrogel for 3D Cell Culture. <i>Analytical Sciences</i> , 2016, 32, 1203-1205.	1.6	15
68	Adsorptionâ€ŽDesorption Control of Fibronectin in Real Time at the Liquid/Polymer Interface on a Quartz Crystal Microbalance by Thermoresponsivity. <i>Biomacromolecules</i> , 2019, 20, 1748-1755.	5.4	15
69	Simultaneous analysis of multiple oligonucleotides by temperature-responsive chromatography using a poly(N-isopropylacrylamide)-based stationary phase. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5341-5351.	3.7	15
70	Effect of pore diameter on the elution behavior of analytes from thermoresponsive polymer grafted beads packed columns. <i>Scientific Reports</i> , 2021, 11, 9976.	3.3	15
71	Anion species-triggered antibody separation system utilizing a thermo-responsive polymer column under optimized constant temperature. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 205, 111890.	5.0	15
72	Visualization of Oxygen Partial Pressure and Numerical Simulation of a Running Polymer Electrolyte Fuel Cell with Straight Flow Channels to Elucidate Reaction Distributions. <i>ChemElectroChem</i> , 2015, 2, 1495-1501.	3.4	13

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73	Development of a compact artificial gill using concentrated hemoglobin solution as the oxygen carrier. <i>Journal of Membrane Science</i> , 2003, 215, 281-292.	8.2	12
74	Real-time visualization of oxygen partial pressures in straight channels of running polymer electrolyte fuel cell with water plugging. <i>Journal of Power Sources</i> , 2015, 273, 873-877.	7.8	12
75	Stable and Prolonged Autonomous Oscillation in a Self-Oscillating Polymer Brush Prepared on a Porous Glass Substrate. <i>Langmuir</i> , 2019, 35, 9794-9801.	3.5	11
76	Crosslinked Poly(N-isopropylacrylamide)-Based Microfibers as Cell Manipulation Materials with Prompt Cell Detachment. <i>Macromolecular Rapid Communications</i> , 2019, 40, 1900464.	3.9	10
77	Autonomous Nanoscale Chemomechanical Oscillation on the Self-Oscillating Polymer Brush Surface by Precise Control of Graft Density. <i>Langmuir</i> , 2021, 37, 4380-4386.	3.5	10
78	Viral vector purification with thermoresponsive-anionic mixed polymer brush modified beads-packed column. <i>Separation and Purification Technology</i> , 2022, 286, 120445.	7.9	9
79	Hydration of poly(N-isopropylacrylamide) brushes on micro-silica beads measured by a fluorescent probe. <i>Chemical Physics Letters</i> , 2010, 491, 193-198.	2.6	8
80	Effective Separation for New Therapeutic Modalities Utilizing Temperature-responsive Chromatography. <i>Analytical Sciences</i> , 2021, 37, 651-660.	1.6	8
81	Temperature responsive chromatography for therapeutic drug monitoring with an aqueous mobile phase. <i>Scientific Reports</i> , 2021, 11, 23508.	3.3	8
82	Dynamic electrical behaviour of a thermoresponsive polymer in well-defined poly(N-isopropylacrylamide)-grafted semiconductor devices. <i>RSC Advances</i> , 2017, 7, 34517-34521.	3.6	7
83	Temperature-responsive spin column for sample preparation using an all-aqueous eluent. <i>Analytica Chimica Acta</i> , 2021, 1179, 338806.	5.4	7
84	The photoresponse of a molybdenum porphyrin makes an artificial gill feasible. <i>Journal of Membrane Science</i> , 2005, 249, 235-243.	8.2	6
85	Two-dimensional temperature-responsive chromatography using a poly(N-isopropylacrylamide) brush-modified stationary phase for effective therapeutic drug monitoring. <i>Scientific Reports</i> , 2022, 12, 2653.	3.3	6
86	Temperature-responsive mixed-mode column for the modulation of multiple interactions. <i>Scientific Reports</i> , 2022, 12, 4434.	3.3	5
87	Liquid Chromatography-Mass Spectrometric Analysis of Dehydroepiandrosterone and Related Steroids Utilizing a Temperature-Responsive Stationary Phase. <i>Chromatography</i> , 2014, 35, 131-138.	1.7	4
88	Design of Functional Thermoresponsive Polymer Brushes and Their Application to Bioseparation. <i>Kobunshi Ronbunshu</i> , 2018, 75, 143-154.	0.2	1
89	Design of two complementary copolymers that work as a glue for cell-laden collagen gels. <i>Chemical Communications</i> , 2020, 56, 10545-10548.	4.1	1
90	Stem cell separation using thermoresponsive copolymer brushes having cationic charge. , 2015, , .		0

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91	Correction: Thermoresponsive-polymer-based materials for temperature-modulated bioanalysis and bioseparations. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2198-2198.	5.8	0
92	Design of VEGF Releasing Fiber Mat for Effective Transplantation of Cardiomyocyte Sheets. <i>Drug Delivery System</i> , 2019, 34, 173-178.	0.0	0