

Masanobu Naito

List of Publications by Year in descending order

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104
papers

4,521
citations

147566

31
h-index

106150

65
g-index

112
all docs

112
docs citations

112
times ranked

5650
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological alternation from structurally adaptable to mechanically stable crosslinked polymer. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 66-75.	2.8	6
2	Light-Induced Topological Patterning toward 3D Shape-Reconfigurable Origami. <i>Small</i> , 2022, 18, 2107078.	5.2	1
3	Evolution of and Disparity among Biomimetic Superhydrophobic Surfaces with Gecko, Petal, and Lotus Effect. <i>Small</i> , 2022, 18, e2200349.	5.2	16
4	Impact of Telechelic Polymer Precursors on the Viscoelastic Properties of Vitrimers. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, 2100433.	1.1	0
5	Light-Induced Topological Patterning toward 3D Shape-Reconfigurable Origami (<i>Small</i> 14/2022). <i>Small</i> , 2022, 18, .	5.2	1
6	Quantitative Fluorescent Detection of Antibacterial Activity with Pyrene-Bearing Tannic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 2022, 95, 748-750.	2.0	0
7	Evolution of and Disparity among Biomimetic Superhydrophobic Surfaces with Gecko, Petal, and Lotus Effect (<i>Small</i> 18/2022). <i>Small</i> , 2022, 18, .	5.2	0
8	Understanding the evolution of a de novo molecule generator via characteristic functional group monitoring. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 352-360.	2.8	5
9	Machine-Learning-Based phase diagram construction for high-throughput batch experiments. <i>Science and Technology of Advanced Materials Methods</i> , 2022, 2, 153-161.	0.4	3
10	Liquid Marble Patchwork on Super-Repellent Surface. <i>Advanced Functional Materials</i> , 2021, 31, 2010957.	7.8	19
11	Global snapshot of the effects of the COVID-19 pandemic on the research activities of materials scientists between Spring and Autumn 2020. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 173-184.	2.8	3
12	Liquid Marble Patchwork: Liquid Marble Patchwork on Super-Repellent Surface (<i>Adv. Funct. Mater.</i>) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	7.8	19
13	Freestanding Tough Glassy Membranes Produced by Simple Solvent Casting of Polyrotaxane Derivatives. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4177-4183.	2.0	5
14	Environmentally friendly recycling system for epoxy resin with dynamic covalent bonding. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 532-542.	2.8	16
15	Postprogrammable Network Topology with Broad Gradients of Mechanical Properties for Reliable Polymer Material Engineering. <i>Chemistry of Materials</i> , 2021, 33, 6876-6884.	3.2	4
16	Mechanochromism of dynamic disulfide bonds as a chromophoric indicator of adhesion strength for epoxy adhesive. <i>Materials Advances</i> , 2021, 2, 5047-5051.	2.6	10
17	Alternating Copolymers of Vinyl Catechol or Vinyl Phenol with Alkyl Maleimide for Adhesive and Water-Repellent Coating Materials. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4604-4612.	2.0	11
18	Exceptional Robustness and Self-Reconfigurability of Liquid Marbles on Superhydrophobic Substrate. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000160.	1.9	17

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19	Toughening Effect of Rodlike Cellulose Nanocrystals in Epoxy Adhesive. ACS Applied Polymer Materials, 2020, 2, 1234-1243.	2.0	38
20	Strengthening epoxy adhesives at elevated temperatures based on dynamic disulfide bonds. Materials Advances, 2020, 1, 3182-3188.	2.6	20
21	Durable and Flexible Superhydrophobic Materials: Abrasion/Scratching/Slicing/Droplet Impacting/Bending/Twisting-Tolerant Composite with Porcupinefish-Like Structure. ACS Applied Materials & Interfaces, 2019, 11, 32381-32389.	4.0	97
22	Spectral dependence of the third-order optical susceptibility of Au nanostructures: Experiments and first-principles calculations. Physical Review B, 2019, 100, .	1.1	10
23	Microbubble flows in superwetable fluidic channels. RSC Advances, 2019, 9, 21220-21224.	1.7	4
24	Prediction and optimization of epoxy adhesive strength from a small dataset through active learning. Science and Technology of Advanced Materials, 2019, 20, 1010-1021.	2.8	59
25	Homogeneously Dispersed Polyrotaxane in Epoxy Adhesive and Its Improvement in the Fracture Toughness. Macromolecules, 2019, 52, 2464-2475.	2.2	51
26	Dispersion state of carbon black in polystyrene produced with different dispersion media and its effects on composite rheological properties. Polymer Journal, 2019, 51, 275-281.	1.3	7
27	Enhancement of the complex third-order nonlinear optical susceptibility in Au nanorods. Optics Express, 2019, 27, 19168.	1.7	12
28	Selective adsorption of globulin on nanofiber meshes for immunoadsorption therapy. New Journal of Chemistry, 2018, 42, 2916-2922.	1.4	4
29	Thermo-resettable cross-linked polymers for reusable/removable adhesives. Polymer Chemistry, 2018, 9, 5559-5565.	1.9	30
30	Natural Polyphenol Surfactants: Solvent-Mediated Spherical Nanocontainers and Their Stimuli-Responsive Release of Molecular Payloads. Chemistry of Materials, 2018, 30, 8025-8033.	3.2	11
31	Broadband Plasmon Resonance Enhanced Third-Order Optical Nonlinearity in Refractory Titanium Nitride Nanostructures. ACS Photonics, 2018, 5, 3452-3458.	3.2	33
32	Coalescence delay of microbubbles on superhydrophobic/superhydrophilic surfaces underwater. Applied Physics Letters, 2018, 113, 033705.	1.5	3
33	Biomimetics : New Approach of Adhesive Materials. Seikei-Kakou, 2018, 30, 113-116.	0.0	0
34	Anticorrosion and Antibacterial Coating Inspired by Astringent Persimmon. Journal of the Adhesion Society of Japan, 2018, 54, 58-64.	0.0	0
35	Emerging Technology, Multimaterial Fabrication. Seikei-Kakou, 2018, 30, 379-382.	0.0	0
36	Rational design of a biomimetic glue with tunable strength and ductility. Polymer Chemistry, 2017, 8, 1654-1663.	1.9	22

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37	Apoptotic Cell Membrane-Inspired Polymer for Immunosuppression. ACS Macro Letters, 2017, 6, 1020-1024.	2.3	16
38	Combinational Effect of Cell Adhesion Biomolecules and Their Immobilized Polymer Property to Enhance Cell-Selective Adhesion. International Journal of Polymer Science, 2016, 2016, 1-9.	1.2	7
39	Synthesis and Properties of [7]Helicene-like Compounds Fused with a Fluorene Unit. Organic Letters, 2016, 18, 3654-3657.	2.4	104
40	Combinational Effects of Polymer Viscoelasticity and Immobilized Peptides on Cell Adhesion to Cell-selective Scaffolds. Analytical Sciences, 2016, 32, 1195-1202.	0.8	6
41	Molecular cavity nanoarchitectonics for biomedical application and mechanical cavity manipulation. CrystEngComm, 2016, 18, 4890-4899.	1.3	34
42	Oligoamylose-entwined porphyrin: excited-state induced-fit for chirality induction. Chemical Communications, 2016, 52, 2481-2484.	2.2	21
43	Hydrophobized plant polyphenols: self-assembly and promising antibacterial, adhesive, and anticorrosion coatings. Chemical Communications, 2016, 52, 312-315.	2.2	49
44	Bioinspired adhesive polymer coatings for efficient and versatile corrosion resistance. RSC Advances, 2015, 5, 15977-15984.	1.7	31
45	Chain dimensions and intermolecular interactions of polysilanes bearing alkyl side groups over the UV thermochromic temperature. Polymer, 2015, 68, 221-226.	1.8	7
46	Confinement of Single Polysilane Chains in Coordination Nanospaces. Journal of the American Chemical Society, 2015, 137, 5231-5238.	6.6	70
47	Rhodium-Catalyzed Asymmetric Synthesis of Silicon-Stereogenic Dibenzosiloles by Enantioselective [2+2+2] Cycloaddition. Angewandte Chemie - International Edition, 2015, 54, 1616-1620.	7.2	102
48	Highly Crystallized Nanometer-Sized Zeolite A with Large Cs Adsorption Capability for the Decontamination of Water. Chemistry - an Asian Journal, 2014, 9, 759-763.	1.7	34
49	Pyridyl-cyclodextrin for ultra-hydrosolubilization of [60]fullerene. Chemical Communications, 2014, 50, 8339-8342.	2.2	17
50	Achiral guest-induced chiroptical changes of a planar-chiral pillar[5]arene containing one π -conjugated unit. Chemical Communications, 2013, 49, 8782.	2.2	63
51	Circularly Polarized Luminescence in Supramolecular Assemblies of Chiral Bichromophoric Perylene Bisimides. Chemistry - A European Journal, 2013, 19, 14090-14097.	1.7	119
52	Facile synthesis of nanoporous carbons with controlled particle sizes by direct carbonization of monodispersed ZIF-8 crystals. Chemical Communications, 2013, 49, 2521.	2.2	474
53	Enzyme nanoarchitectonics: organization and device application. Chemical Society Reviews, 2013, 42, 6322.	18.7	376
54	Facile Synthetic Route to Highly Luminescent Sila[7]helicene. Organic Letters, 2013, 15, 2104-2107.	2.4	205

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55	Naked-Eye Discrimination of Methanol from Ethanol Using Composite Film of Oxoporphyrinogen and Layered Double Hydroxide. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5927-5930.	4.0	50
56	Time-Resolved Observation of Chiral-Index-Selective Wrapping on Single-Walled Carbon Nanotube with Non-Aromatic Polysilane. <i>Journal of the American Chemical Society</i> , 2013, 135, 2374-2383.	6.6	22
57	Chiroptical Control in Helical Receptor-Anion Complexes. <i>Organic Letters</i> , 2013, 15, 6006-6009.	2.4	26
58	Chirality Induction by Formation of Assembled Structures Based on Anion-Responsive π -Conjugated Molecules. <i>Chemistry - A European Journal</i> , 2013, 19, 16263-16271.	1.7	26
59	Large Cs adsorption capability of nanostructured Prussian Blue particles with high accessible surface areas. <i>Journal of Materials Chemistry</i> , 2012, 22, 18261.	6.7	174
60	pH responsive smart carrier of [60] fullerene with 6-amino-cyclodextrin inclusion complex for photodynamic therapy. <i>Journal of Materials Chemistry</i> , 2012, 22, 22610.	6.7	27
61	Vertically-oriented conjugated polymer arrays in mesoporous alumina via simple drop-casting and appearance of anisotropic photoluminescence. <i>Chemical Communications</i> , 2012, 48, 549-551.	2.2	16
62	Highly Fluorescent Slipped-Cofacial Phthalocyanine Dimer as a Shallow Inclusion Complex with β -Cyclodextrin. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5139-5144.	1.1	26
63	Chiroptical generation and inversion during the mirror-symmetry-breaking aggregation of dialkylpolysilanes due to limonene chirality. <i>Chemical Communications</i> , 2012, 48, 6636.	2.2	87
64	Asymmetric Induction in the Preparation of Helical Receptor-Anion Complexes: Ion-Pair Formation with Chiral Cations. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7967-7971.	7.2	102
65	Reversible Photogeneration of a Stable Chiral Radical-Pair from a Fast Photochromic Molecule. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2680-2682.	2.1	19
66	Chemical-Stimuli-Controllable Circularly Polarized Luminescence from Anion-Responsive π -Conjugated Molecules. <i>Journal of the American Chemical Society</i> , 2011, 133, 9266-9269.	6.6	385
67	Evaluation of Global Conformation of Polydialkylsilane Using Correlation between Persistence Length and Excitonic Absorption. <i>Macromolecules</i> , 2011, 44, 6568-6573.	2.2	15
68	Versatile self-assembled hybrid systems with exotic structures and unique functions. <i>Current Opinion in Colloid and Interface Science</i> , 2011, 16, 482-490.	3.4	10
69	Programmed High-Hole-Mobility Supramolecular Polymers from Disk-Shaped Molecules. <i>Advanced Functional Materials</i> , 2010, 20, 3941-3947.	7.8	18
70	Circularly Polarized Luminescent CdS Quantum Dots Prepared in a Protein Nanocage. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7006-7009.	7.2	152
71	Vertically Aligned Multilayer Films of Monodispersed Helical Polypeptides with Micrometer Thickness via Simple Cast. <i>Langmuir</i> , 2010, 26, 9166-9169.	1.6	2
72	Monovalent Anion Indicator Based on Fluorescence Quenching of Helical Fluorinated Poly(dialkylsilanes). <i>Macromolecules</i> , 2010, 43, 7919-7923.	2.2	11

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73	Ambidextrous optically active copper(ii) phthalocyanine supramolecules induced by peripheral group homochirality. <i>New Journal of Chemistry</i> , 2010, 34, 2310.	1.4	12
74	Preparation of phthalocyanine ultrathin film via layer-by-layer assembly. <i>Thin Solid Films</i> , 2009, 518, 625-628.	0.8	5
75	Poly(fluoroalkylsilane-b-dialkylsilane)-based chemosensory material for fluoride with high sensitivity, selectivity and solubility. <i>Synthetic Metals</i> , 2009, 159, 784-787.	2.1	2
76	Circularly polarized luminescence from chiral Eu(III) Complex with high emission quantum yield. <i>Journal of Alloys and Compounds</i> , 2009, 488, 599-602.	2.8	22
77	Circularly Polarized Luminescence of Eu(III) Complexes with Point- and Axis-Chiral Ligands Dependent on Coordination Structures. <i>Inorganic Chemistry</i> , 2009, 48, 11242-11250.	1.9	106
78	Preparation of Fluoroalkylpolysilanes with Wurtz-type Condensation Polymerization and Elucidation of their Organogelation Mechanism. <i>Kobunshi Ronbunshu</i> , 2009, 66, 298-311.	0.2	0
79	Chemical Degelation of Polysilane Organogel by Selective Scission of Silicon Main Chain by Fluoride Anion. <i>Chemistry Letters</i> , 2009, 38, 414-415.	0.7	2
80	Polysilane Organogel with Hierarchical Structures Formed by Weak Intra-/Inter-chain Si/FC and van der Waals Interactions. <i>Polymer Journal</i> , 2008, 40, 317-326.	1.3	7
81	Stiffness- and Conformation-Dependent Polymer Wrapping onto Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 16697-16703.	6.6	69
82	Polysilanes on surfaces. <i>Soft Matter</i> , 2008, 4, 211-223.	1.2	25
83	Polyfluorene nano-rings and nano-dots on mica surfaces: evaporation-induced polymer self-assembly and photoluminescence properties of the assemblies. <i>Soft Matter</i> , 2008, 4, 2396.	1.2	18
84	Multiblock Polysilane Copolymers: One-Pot Wurtz Synthesis, Fluoride Anion-Induced Block-Selective Scission Experiments, and Spectroscopic Characterization. <i>Macromolecules</i> , 2008, 41, 1952-1960.	2.2	20
85	Orientalional and Structural Transitions of Semiflexible Polysilanes on the Surfaces. <i>Kobunshi Ronbunshu</i> , 2008, 65, 199-207.	0.2	1
86	Highly Organized Phthalocyanine Assembly onto Gold Surface through Spontaneous Polymerization. <i>Chemistry Letters</i> , 2007, 36, 304-305.	0.7	5
87	Switching in Orientation of Macromolecular Helical Rod Silicon on the Solid Surfaces. <i>Macromolecules</i> , 2007, 40, 648-652.	2.2	11
88	Circularly Polarized Luminescence of a Fluorescent Chiral Binaphthylene-Perylenebiscarboxydiimide Dimer. <i>ChemPhysChem</i> , 2007, 8, 1465-1468.	1.0	120
89	Switching in molecular shapes: main chain length driven rod-circle transition of isolated helical polysilanes. <i>Chemical Communications</i> , 2006, , 2705-2707.	2.2	26
90	Weak noncovalent Si-H...C interactions stabilized fluoroalkylated rod-like polysilanes as ultrasensitive chemosensors. <i>Journal of Polymer Science Part A</i> , 2006, 44, 5060-5075.	2.5	28

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91	Novel Approach for Biofouling-Release Materials with Interpenetrating Polymer Networks. Materials Research Society Symposia Proceedings, 2005, 897, 1.	0.1	0
92	Novel Strategy for Antifouling Paints with Zero Endocrine Disrupting Chemical (EDC) Elution based on Interpenetrating Polymer Networks (IPNs). Materials Research Society Symposia Proceedings, 2005, 873, 1.	0.1	0
93	First observation of a smectic A \rightarrow cholesteric phase transition in a thermotropic liquid crystal consisting of a rigid-rod helical polysilane. Liquid Crystals, 2004, 31, 279-283.	0.9	17
94	Room-temperature one-step immobilization of rod-like helical polymer onto hydrophilic substrates. Chemical Communications, 2004, , 276-277.	2.2	12
95	Spectroscopic Evidence of Si \sim H End Groups in Dialkylpolysilanes Synthesized via Wurtz Coupling. Macromolecules, 2004, 37, 367-370.	2.2	37
96	Helical Shape Memory of Screw-Sense Switchable Polysilanes in Cast Films. Chemistry of Materials, 2004, 16, 3919-3923.	3.2	27
97	Novel Molecular Weight and Solvatochromisms in Poly(methyl-3,3,3-trifluoropropylsilane) Induced by Cooperative Through-Space Si \sim C Interactions. Macromolecules, 2004, 37, 5873-5879.	2.2	24
98	Helical Polymer Command Surface: Thermally Driven Chiroptical Transfer and Amplification in Binary Polysilane Film System. Macromolecules, 2004, 37, 3081-3083.	2.2	59
99	Effect of Solvation on Induce-Fit Molecular Recognition in Supercritical Fluid to Organic Crystals Immobilized on a Quartz Crystal Microbalance. Journal of the American Chemical Society, 2001, 123, 11037-11041.	6.6	17
100	FT-IR, TEM, and AFM studies of supramolecular architecture formed by tripeptide-containing monoalkyl amphiphiles. Polymers for Advanced Technologies, 2000, 11, 856-864.	1.6	6
101	Nucleobase molecular recognition in supercritical carbon dioxide by using a highly sensitive 27 MHz quartz-crystal microbalance. Chemical Communications, 2000, , 45-46.	2.2	8
102	Modulated Supramolecular Assemblies Composed of Tripeptide Derivatives: Formation of Micrometer-Scale Rods, Nanometer-Size Needles, and Regular Patterns with Molecular-Level Flatness from the Same Compound. Langmuir, 2000, 16, 4929-4939.	1.6	48
103	Regulation of β -Sheet Structures within Amyloid-Like β -Sheet Assemblage from Tripeptide Derivatives. Journal of the American Chemical Society, 1998, 120, 12192-12199.	6.6	208
104	AFM Observation of a Supramolecular Rod-like Structure of Bilayer Membrane Formed from Tripeptide-Containing Amphiphiles. Chemistry Letters, 1998, 27, 493-494.	0.7	6